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ROBE – NARACOORTE COASTAL SURVEY

STRATIGRAPHIC DRILLING OF QUATERNARY SEQUENCE – SEDIMENTOLOGICAL DATA

Submitted by
Commonwealth of Australia. Bureau of Mineral Resources, Geology and Geophysics
1975

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Ground Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880

PRIMARY INDUSTRIES AND RESOURCES SA

CONTENTS ENVELOPE. 2536. D.M. 317/74. 002

TENEMENT: NOT RELATED
TENEMENT HOLDER:BUREAU of MINERAL RESOURCES.GEOLOGY & GEOPHYSICS.

REPORT:
1975.
Coastal Studies S.E.S.A.

INTERPRETED LOGS.

Penola, 2,2a,3,4,4a,5,7,7a,8,8a,11,11a,12,12a,15,16,16a,19 19a,20,20a. pgs.(3-24)

Naracoorte.21,21a. pgs.(25-27)

Penola. 4,5,7.7a,8,8a,11,11a,11b,12,12a,12b,15,15a,16,16a, 16b,19,20,20a,20b. pgs.(28-51)

Naracoorte. 21,21a,21a, pgs.(52-54)

Naracoorte. 36,37,38,38a,39,39a,40,41,41a,42,42a,43,44, 44a,45,45a. pgs.(55-72)

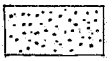
REPORT:
Dept. of Services & Property project.
Robe - Naracoorte Coastal Survey.

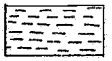
BORE HOLES.

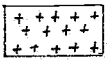
NO. 1,2,3,4,5,6,7,7a,8,9,10,11,12,13,14,15,16,17,18,19,20, 21,21a,21b,22,23,23a,24,25,26,27,28,29,30,31,31a,31b,32, 32a,33,34. pgs.(73-110)

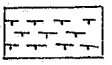
KEY

003


Quartzose sand/sandstone


clay/claystone


Calcarenite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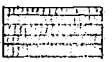
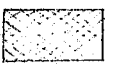
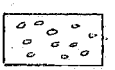
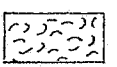

calcrete

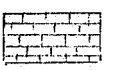

soil


chert


Quartz granules + pebbles


Calcrete pebbles


shell grit


Gambier Limestone

Ferruginised surface


Fossils

Fossil fragments

Rhombs


Root fragments, Plant fibres

Cross bedding, low angle

wavy lamination


Heavy minerals, opaque grains

Fe Iron staining

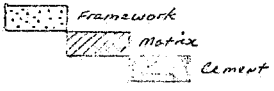
Mn Manganese staining

P Pyrite

Gl Glauconite

mica

SEDIMENT COMPONENTS



FRAMEWORK COMPOSITION

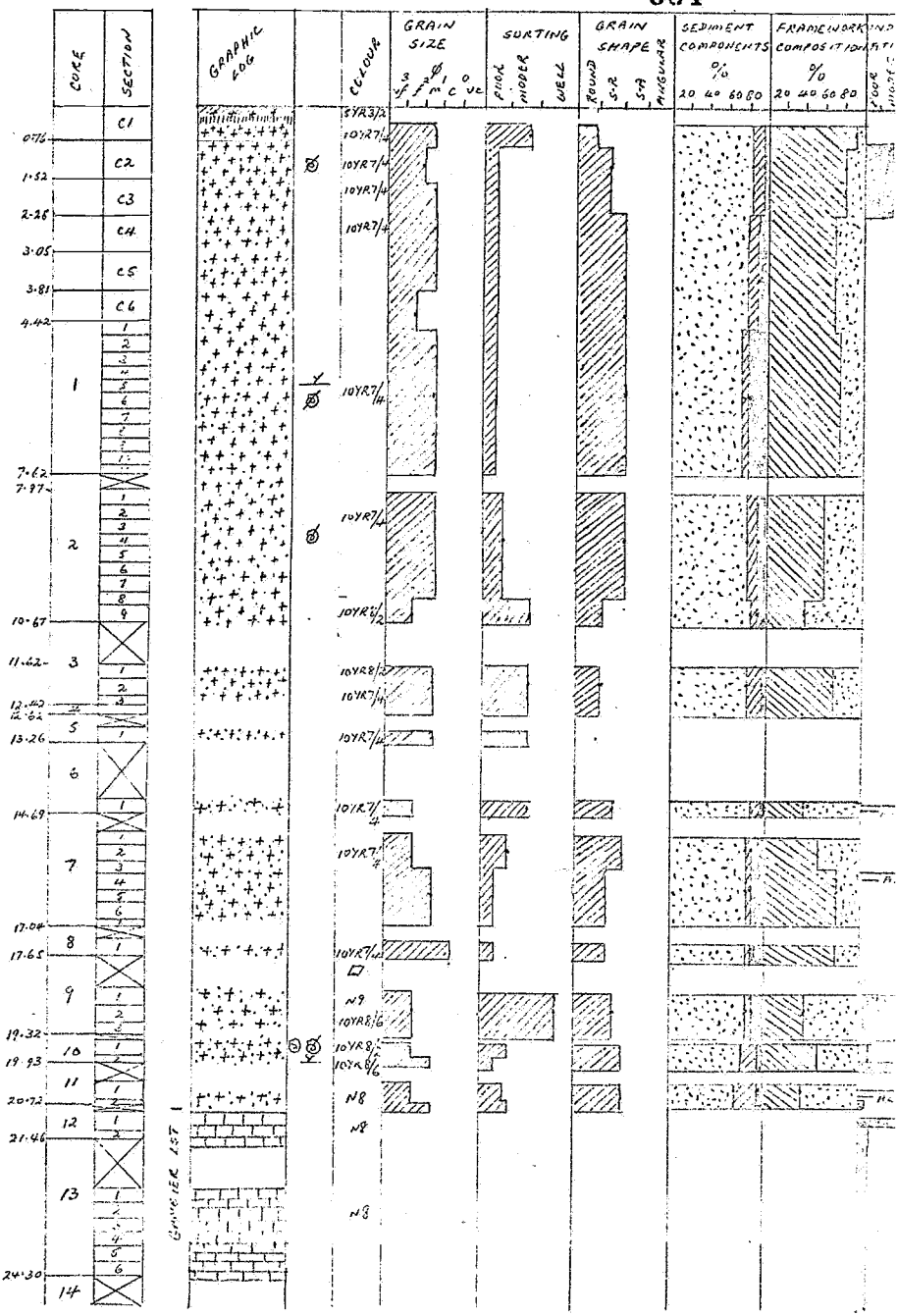
INDURATION

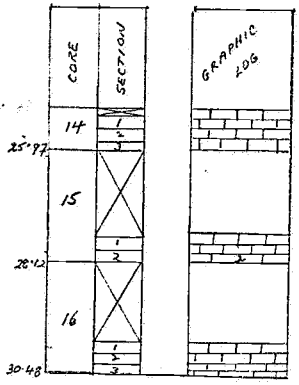
ALT Alternating indurated + NON-indurated bands

PENOLA NO 2

6823 183

004



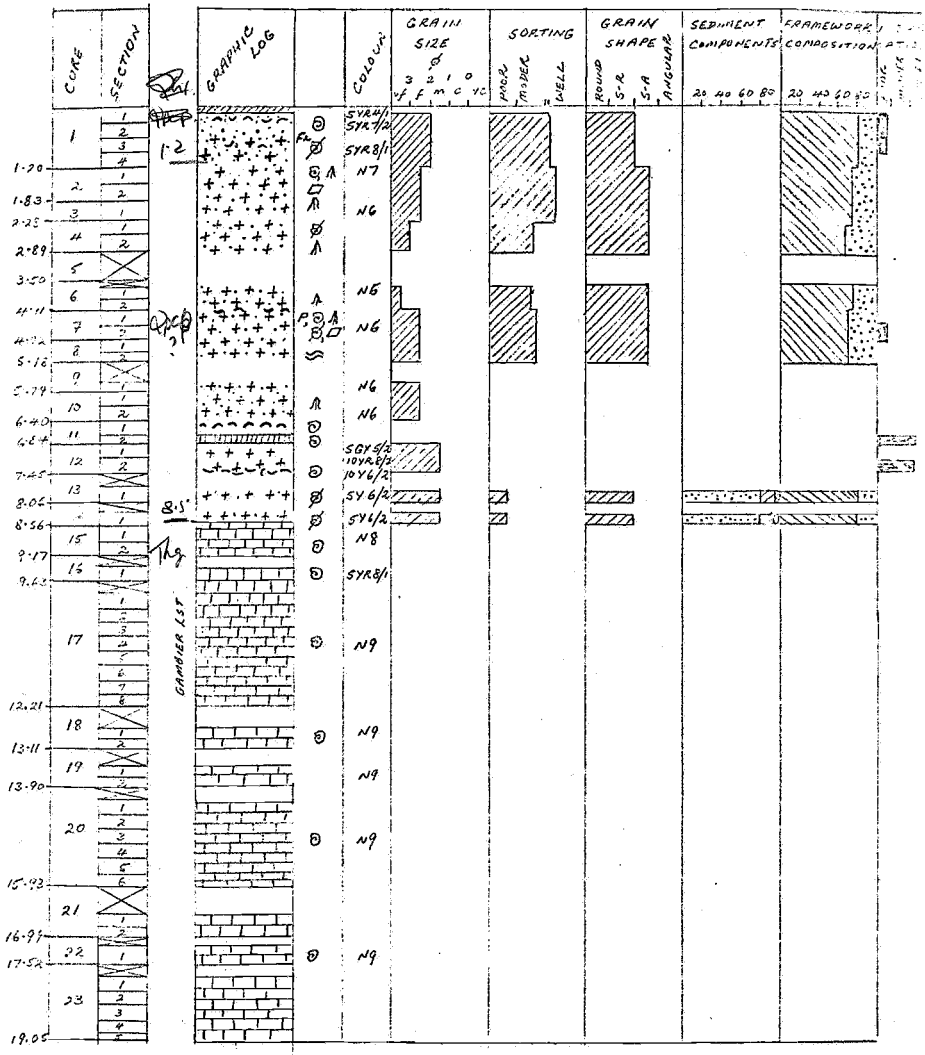

CORE
SECTION
GRAPHIC LOG
14
1
2
3
25·97
15
1
2
28·42
16
1
2
3
30·48

6823 - 664

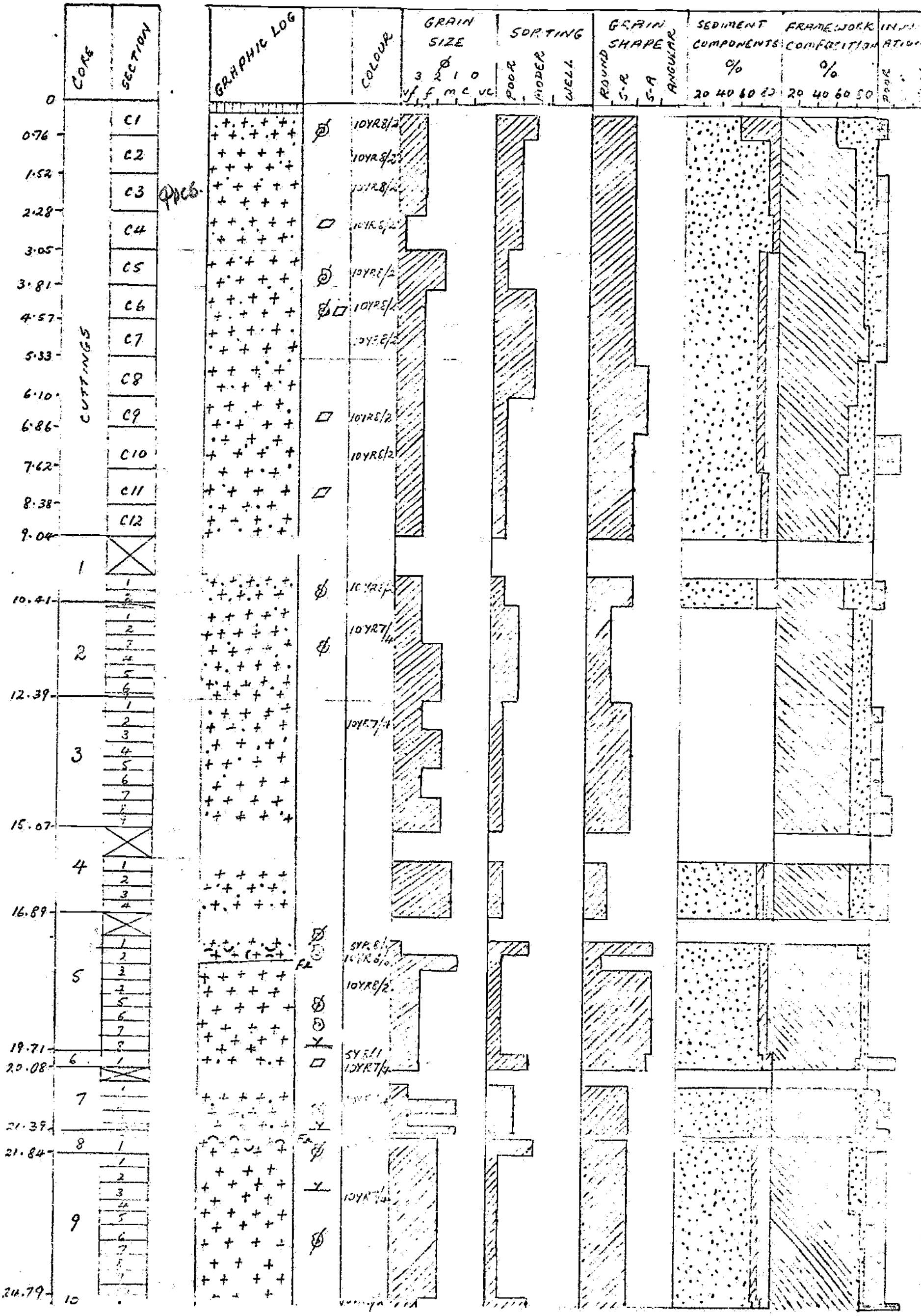
Qhclzi

PENOLA 3

006



PENOLA 4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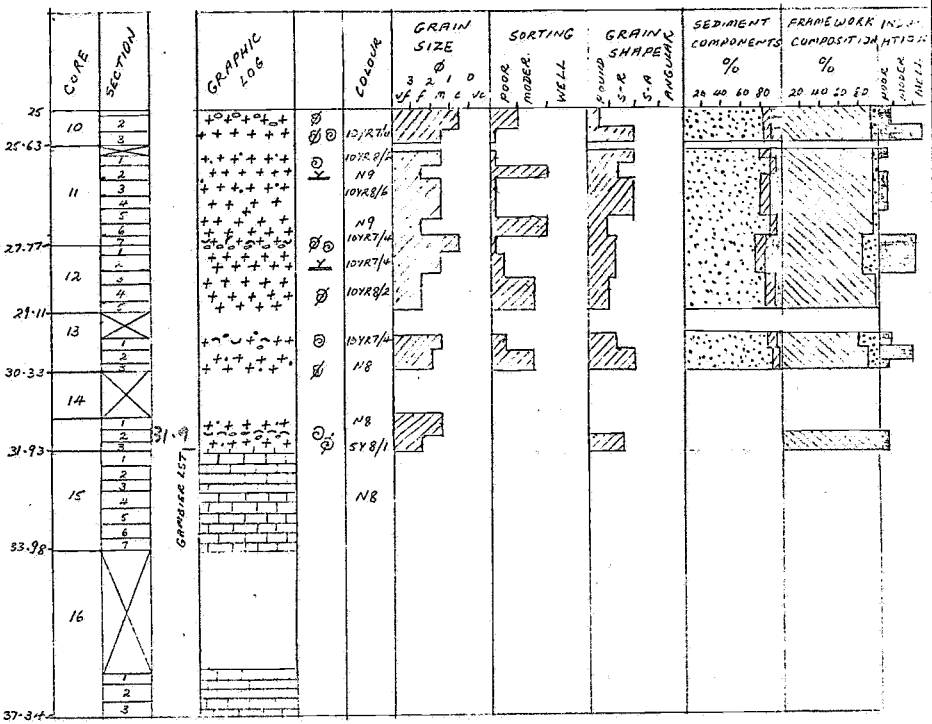
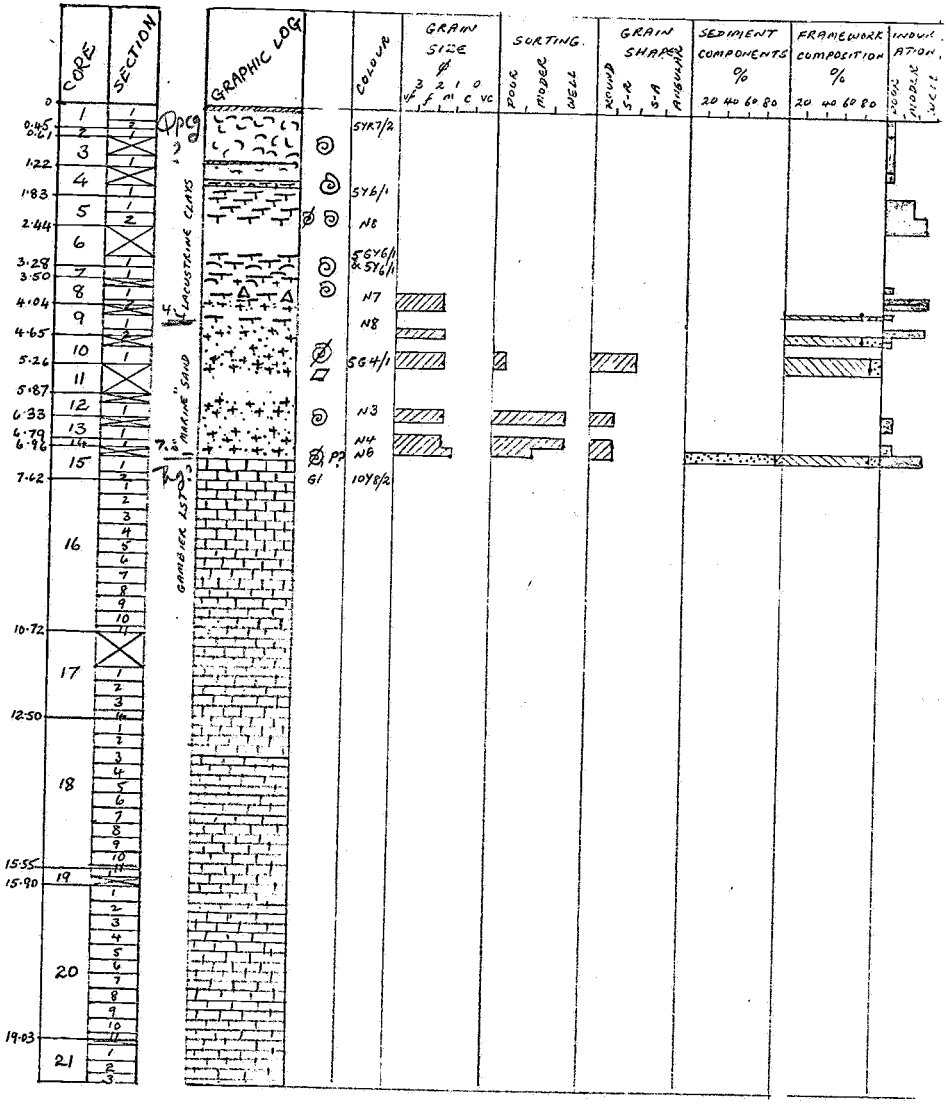
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS
%
20 40 60 80
FRAMEWORK COMPOSITION
%
20 40 60 80
0
0·76
1·52
2·28
3·05
3·81
4·57
5·33
6·10
6·86
7·62
8·38
9·04
10·41
12·39
15·07
16·89
19·71
20·08
21·39
21·84
24·79
CUTTINGS
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
1
2
3
4
5
6
7
8
9
10
10YR8/2
10YR8/2
10YR8/2
10YR6/2
10YR6/2
10YR6/2
10YR6/2
10YR6/2
10YR6/2
10YR7/4
10YR7/4
5YR6/1
10YR8/6
10YR6/2
5YR6/1
10YR7/4
10YR7/4
FR
Fr


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
Ø 3 2 1 0
vf f m c vc
SORTING
POOR MODER. WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
25
25·63
27·77
29·11
30·33
31·93
33·98
37·34
31·09
GAMMA RAY
10
11
12
13
14
15
16
12/R7/4
10YR 8/2
N9
10YR8/6
N9
10YR7/4
10YR7/4
10YR8/2
10YR7/4
N8
N8
5Y8/1
N8

6823-789

PENOLA 5

009



6923 1538

PENOLA No. 7

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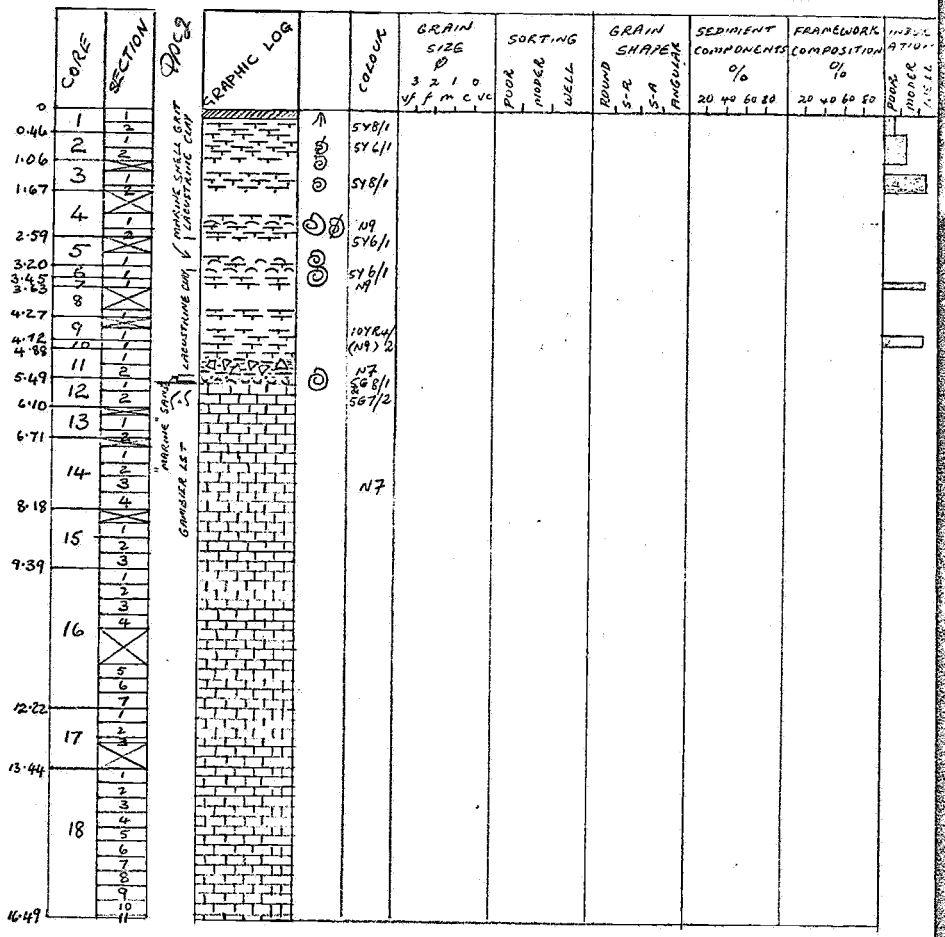
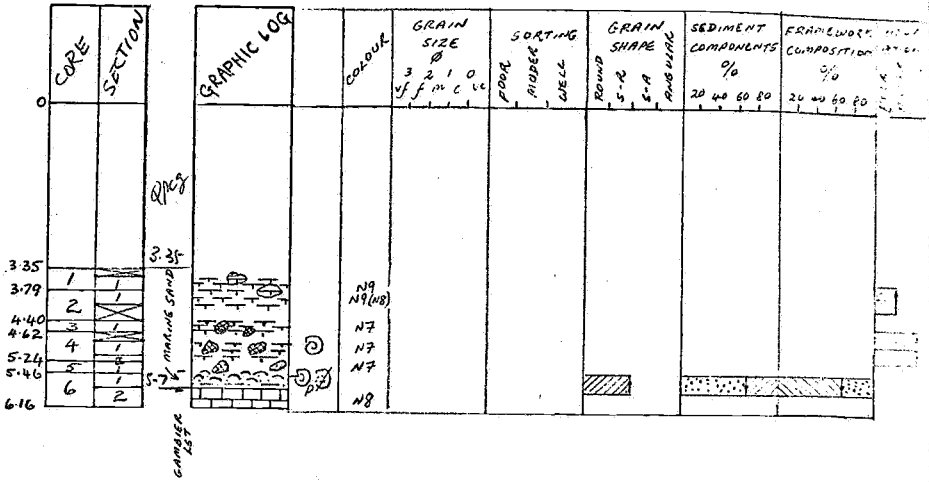


6923 - 153B?

011

PENOLA 7A



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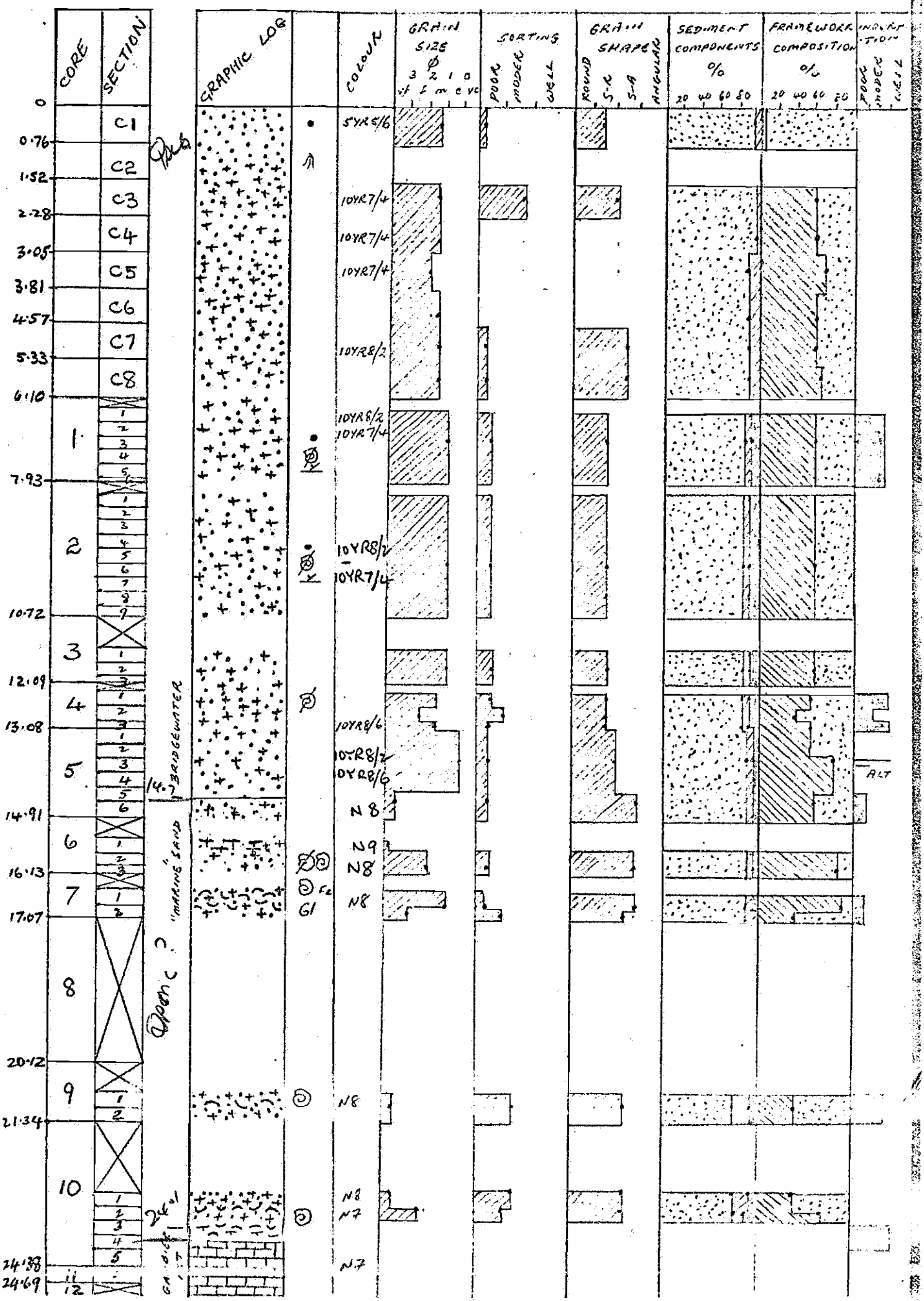
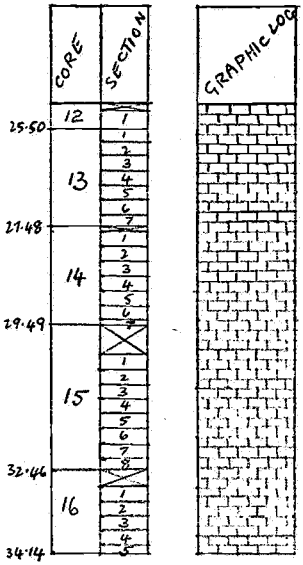
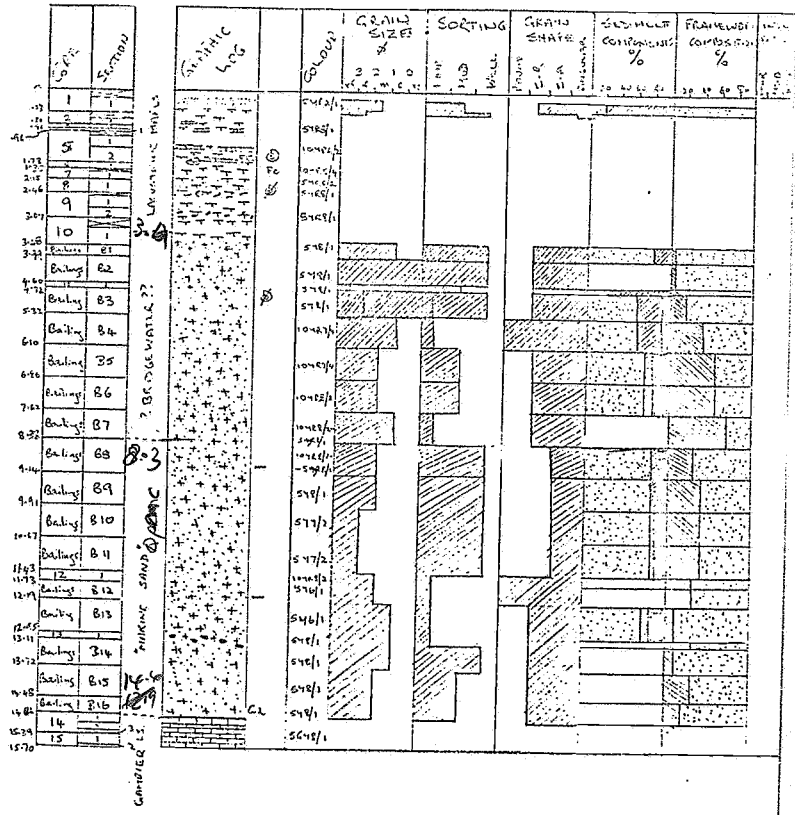
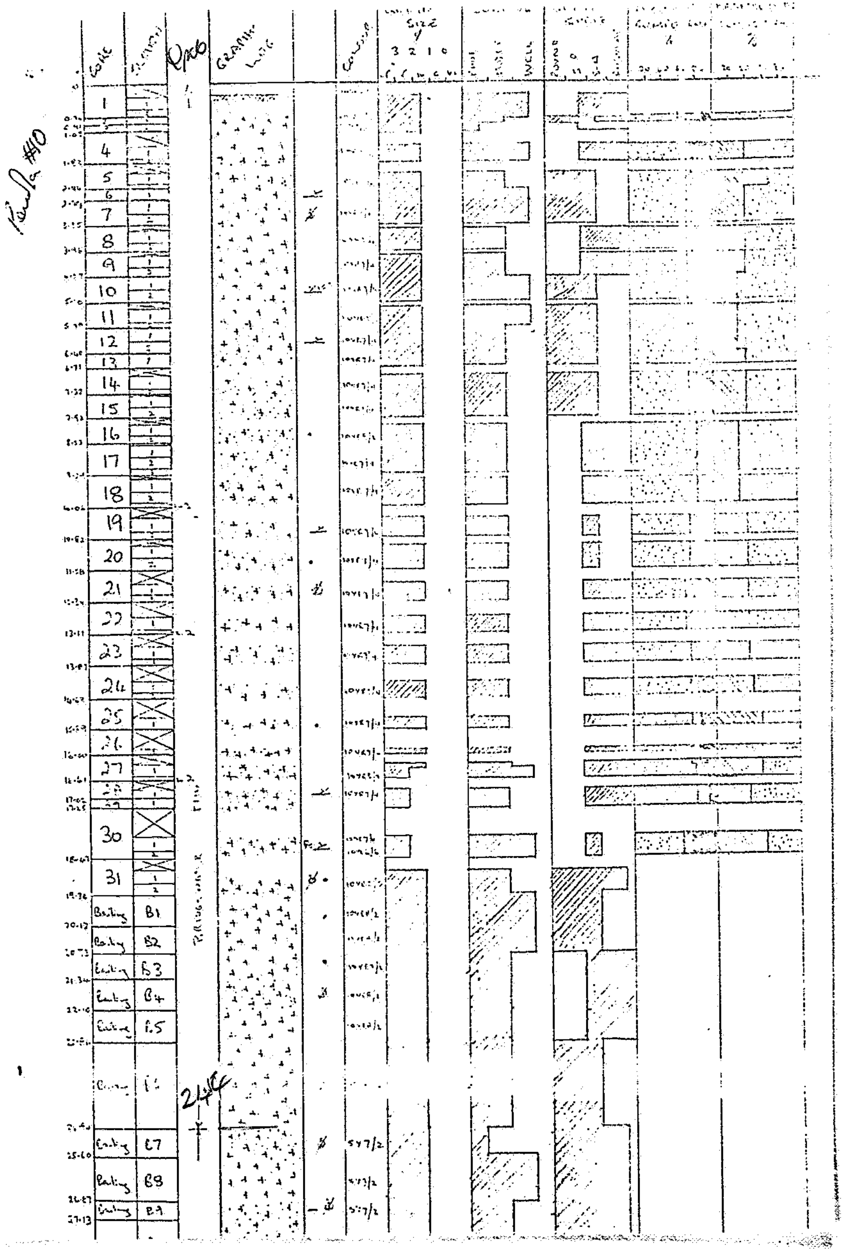

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE φ 3 2 1 0 vf f m c vc
SORTING POOR MODER WELL
GRAIN SHAPE ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS % 20 40 60 80
FRAMEWORK COMPOSITION % 20 40 60 80
INDURATION POOR MODER WELL
0
0.76
1.52
2.28
3.05
3.81
4.57
5.33
6.10
7.93
10.72
12.09
13.08
14.91
16.13
17.07
20.12
21.34
24.38
24.69
C1
C2
C3
C4
C5
C6
C7
C8
1
2
3
4
5
6
7
8
9
10
11
12
5YR5/6
10YR7/4
10YR8/2
10YR8/6
N8
N9
N7
Fe
Gl
BRIDGEWATER
14.7
"MARINE SAND"
ALT
26.01

PENOLA No 8A (continued)

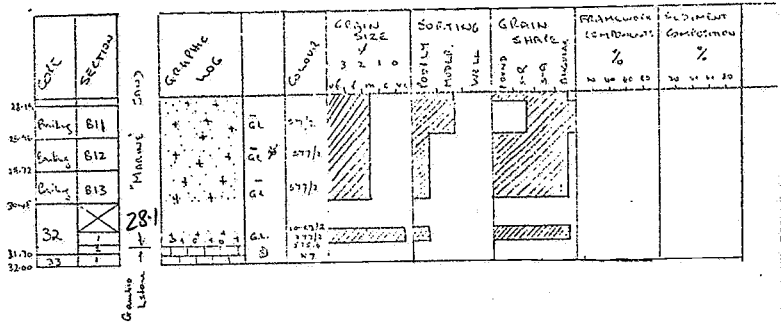


QPLP Tension 9.




CORE
GRAPHIC LOG
SIZE
3 2 1 0
1
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
30
31
B1
B2
B3
B4
B5
B7
B8
B9
5Y7/2

PENOLA 10 (cont)

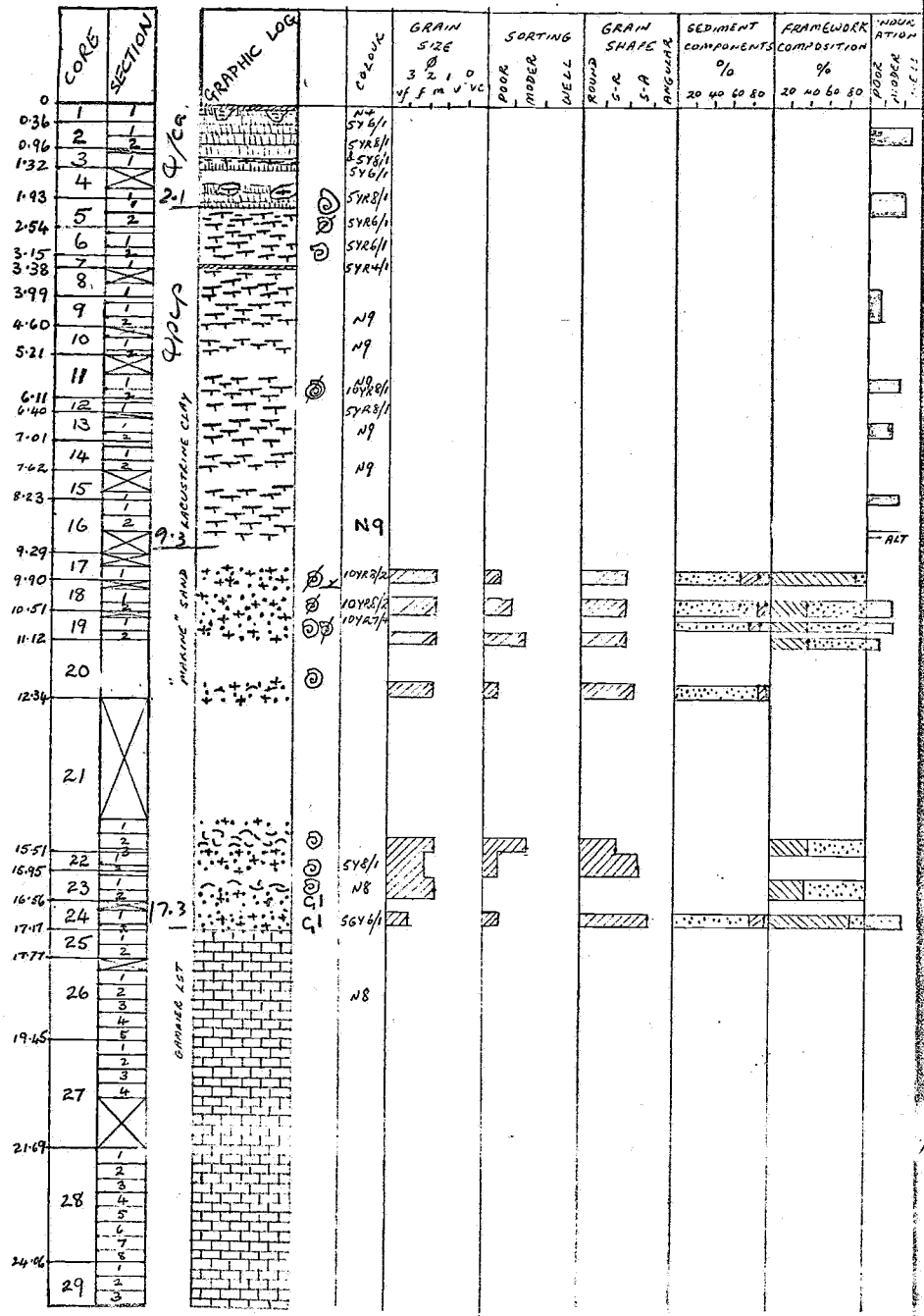


6923 - 1769

Calc.

PENOLA No. 11.

014



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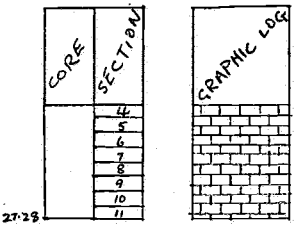

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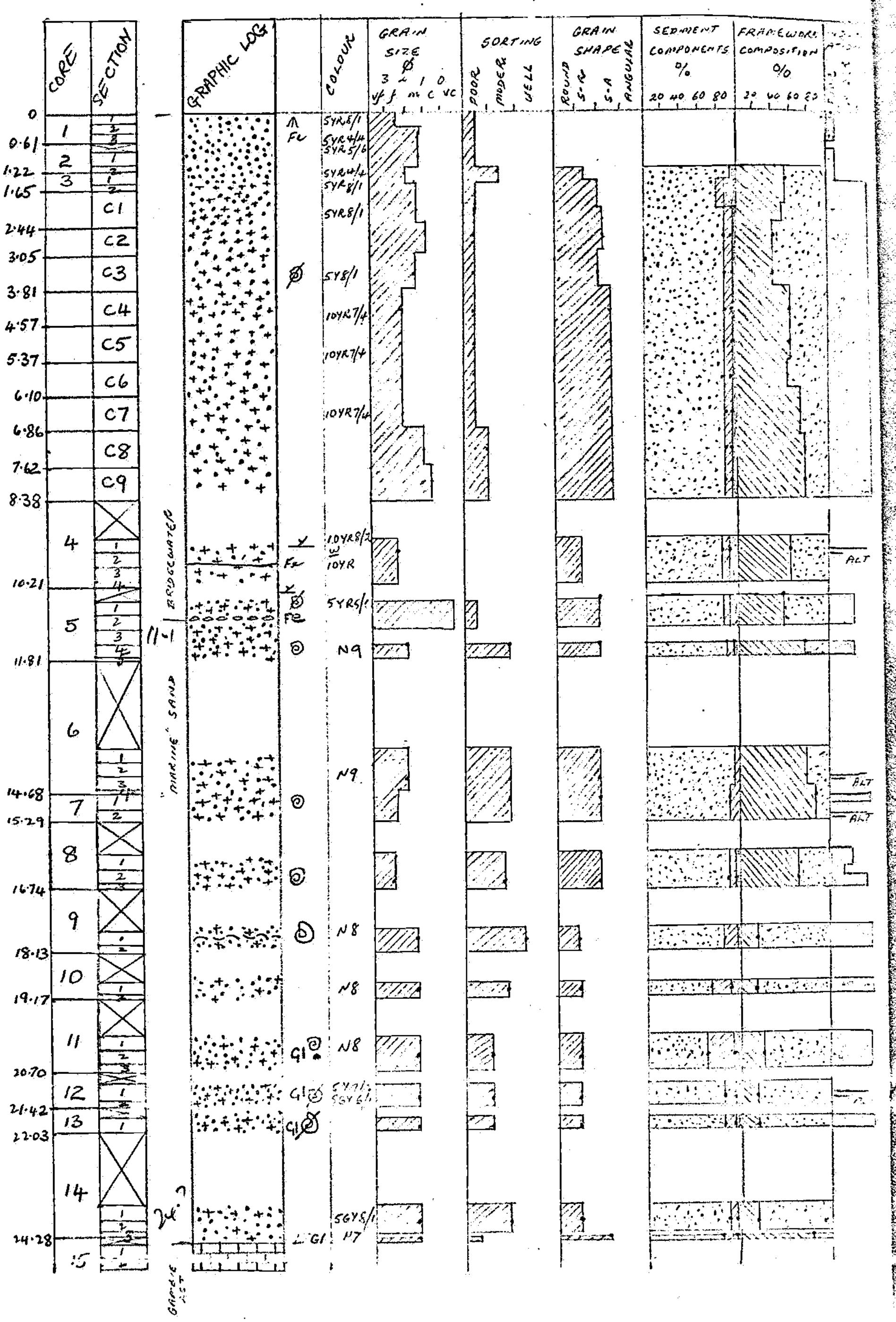

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
0
0.61
1.22
1.65
2.44
3.05
3.81
4.57
5.37
6.10
6.86
7.62
8.38
10.21
11.81
14.68
15.29
16.74
18.13
19.17
20.70
21.42
22.03
24.28
C1
C2
C3
C4
C5
C6
C7
C8
C9
BRIDGEWATER
'MARINE' SAND
11.1
Fe
5YR8/1
5YR4/4
5YR5/6
5YR4/4
5YR8/1
5Y8/1
10YR7/4
10YR8/2
10YR
5YR5/1
N9
N8
N7
5GY5/1
Gl
ALT
GAMBIER LST

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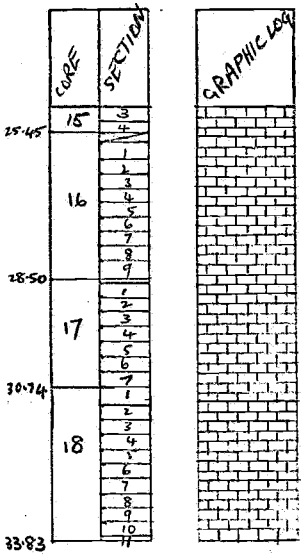

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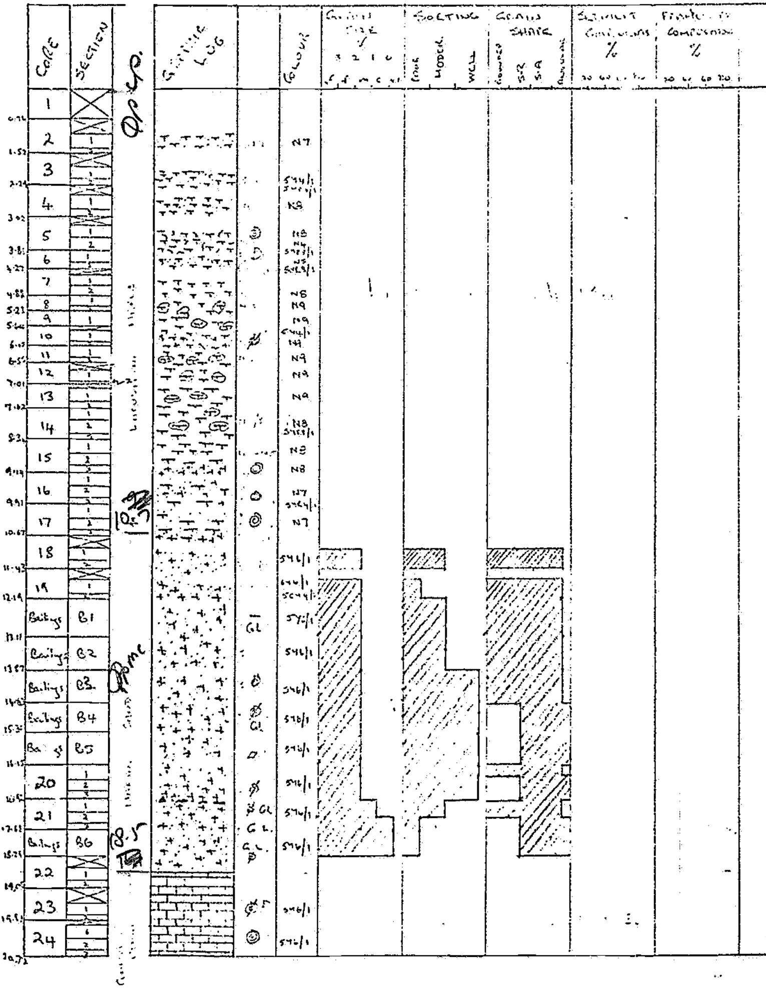
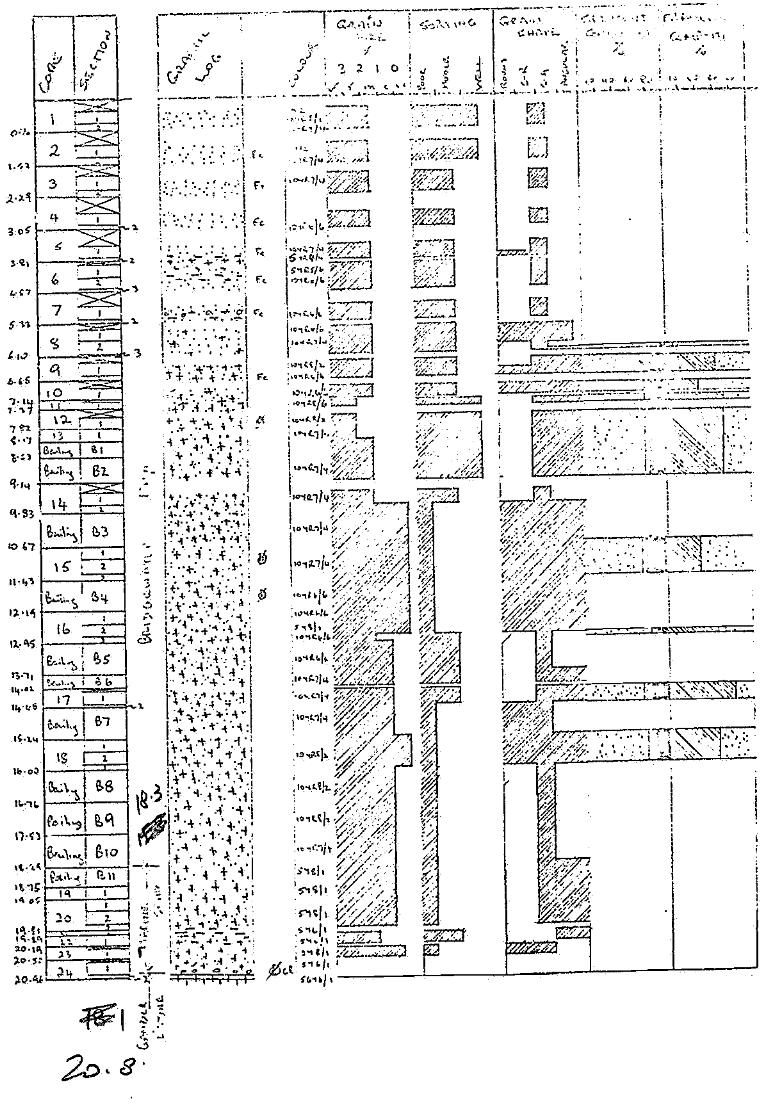
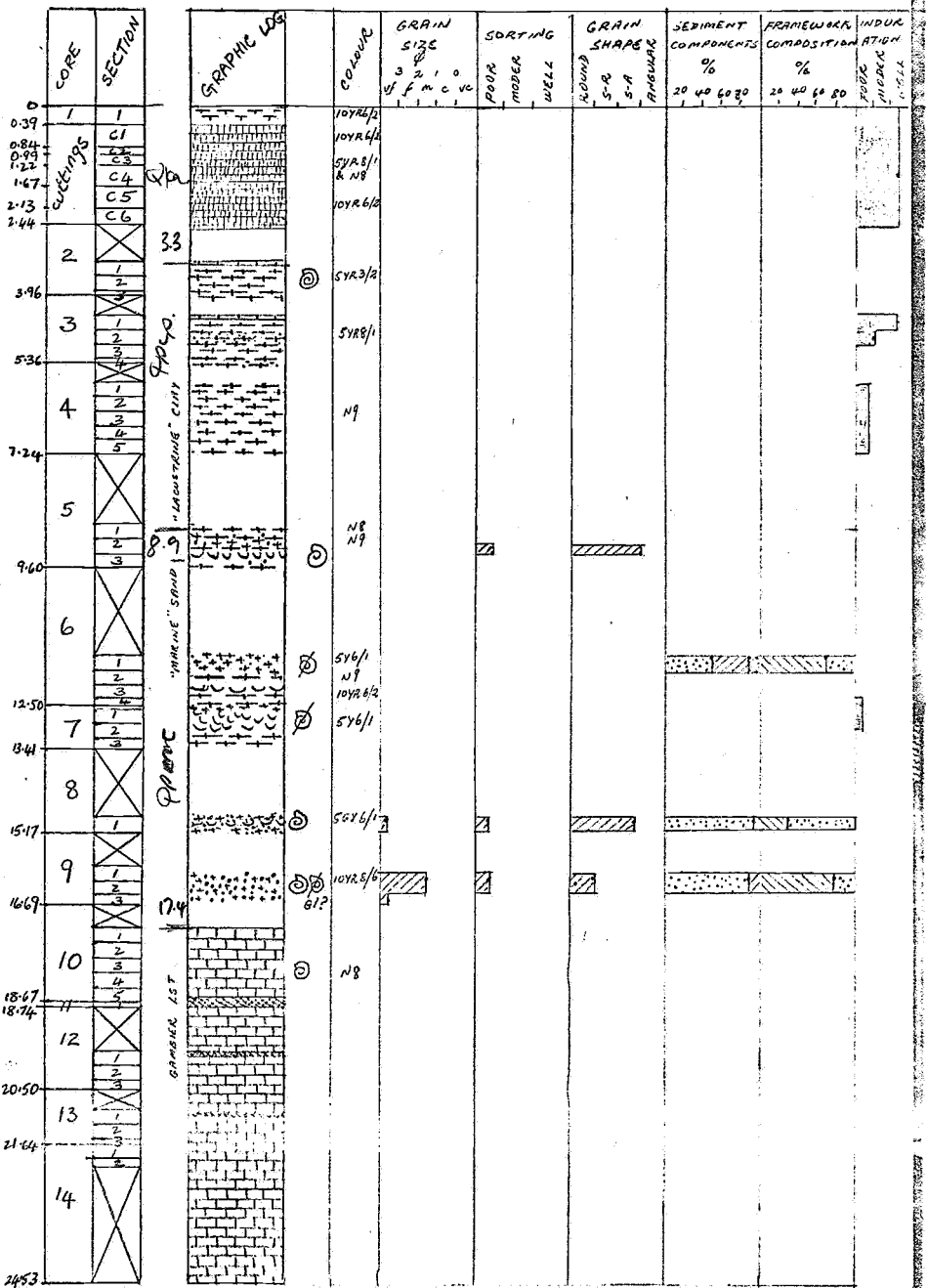

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
GRAIN SHAPE
%
%
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
Bailys B1
Bailys B2
Bailys B3
Bailys B4
B5
20
21
Bailys B6
22
23
24
N7
N8
N9
N8
N9
N8
N7
GL
18.5

Tenowa No 14


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
POOR
MODERATE
WELL
GRAIN SHAPE
0.76
1.52
2.29
3.05
3.81
4.57
5.33
6.10
6.68
7.14
7.37
7.92
8.17
8.53
9.14
9.83
10.67
11.43
12.19
12.95
13.71
14.02
14.48
15.24
16.00
16.76
17.53
18.29
18.75
19.05
19.81
20.19
20.57
20.96
Baling
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
Fe
18.3
20.8

6923 758 018

PENOLA 15



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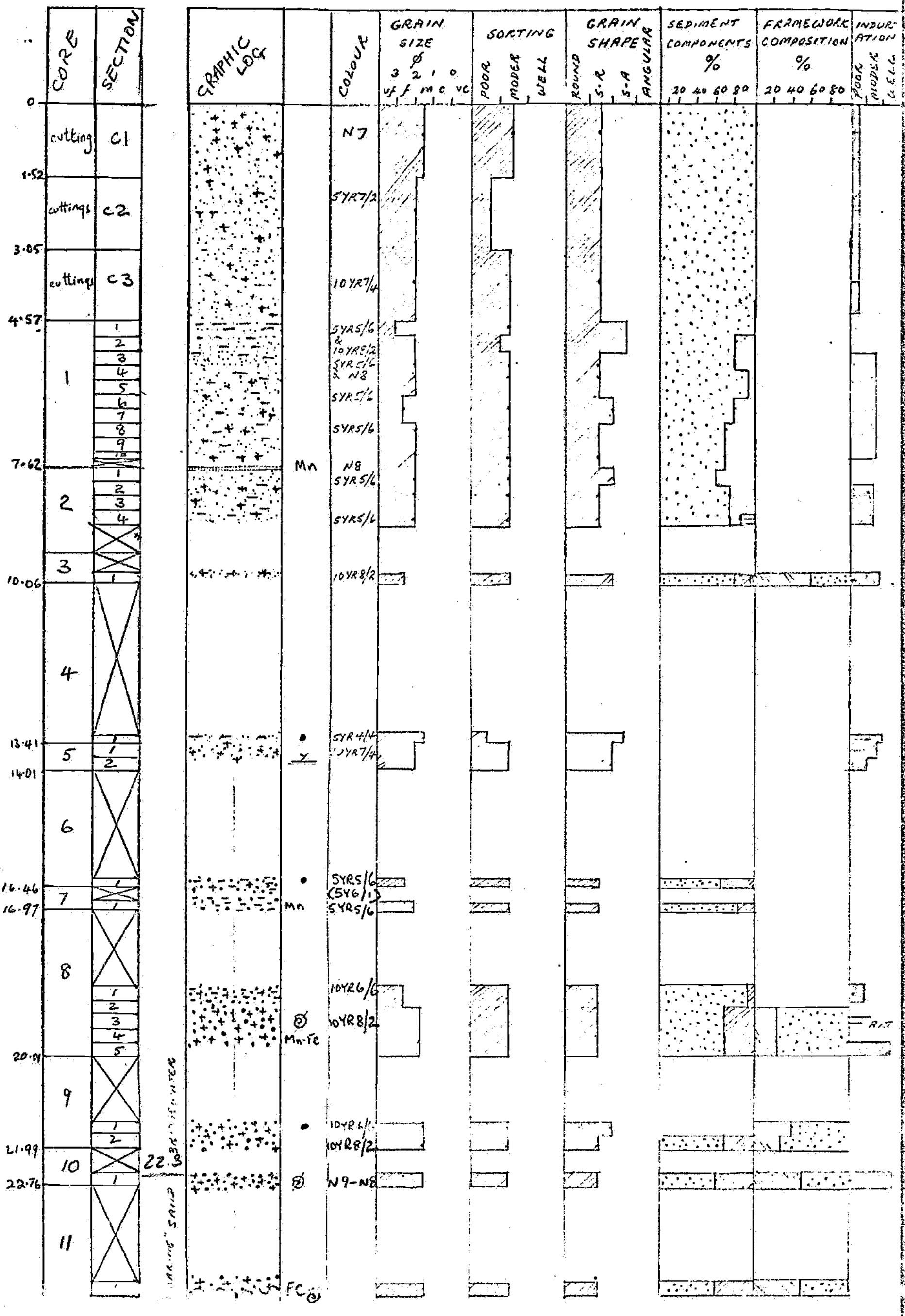
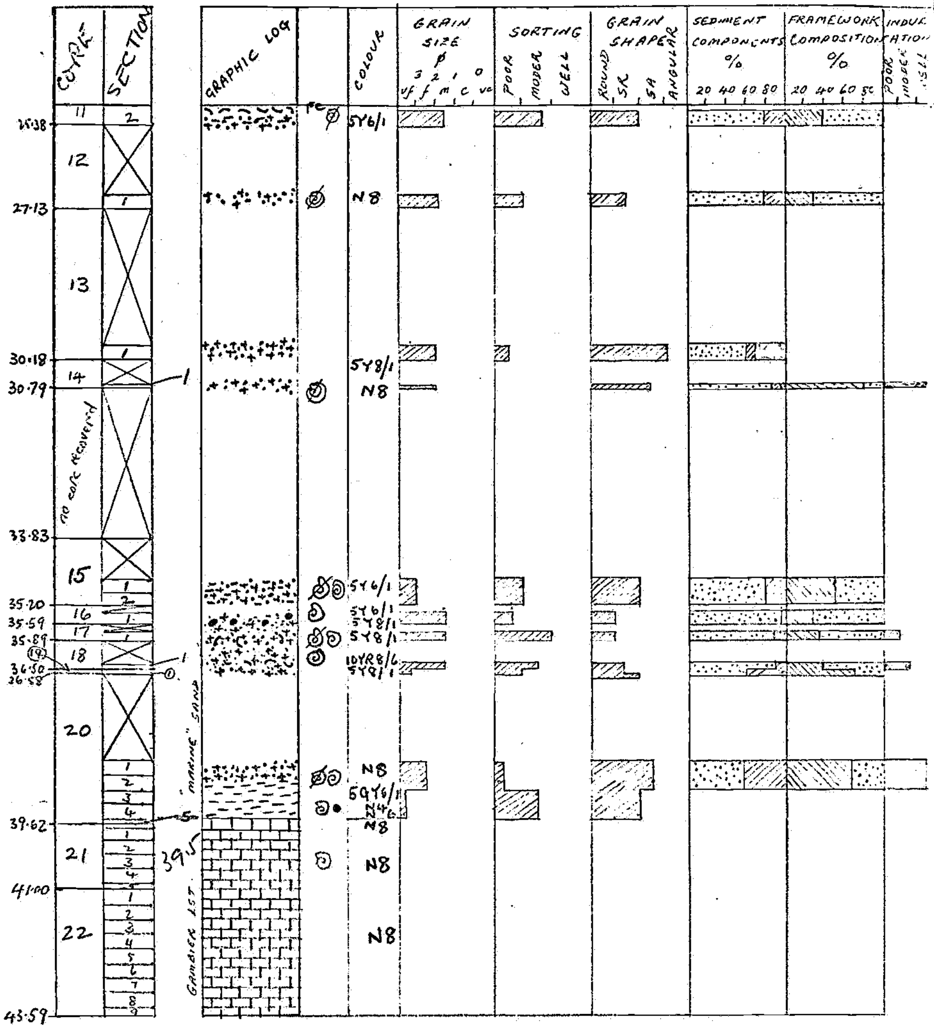
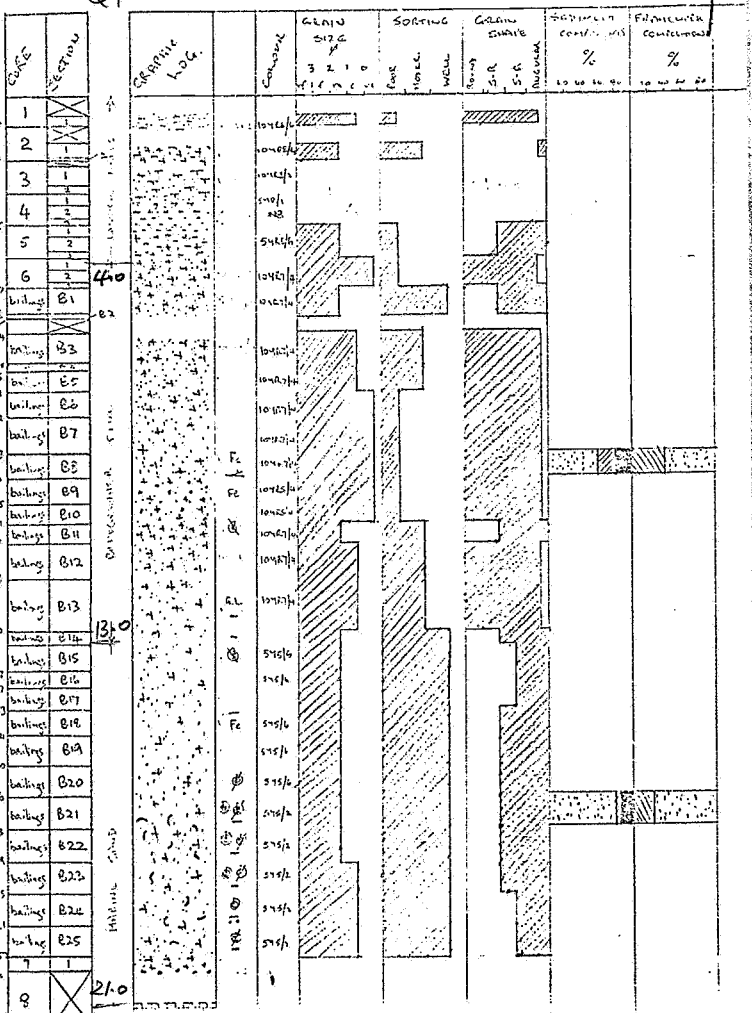
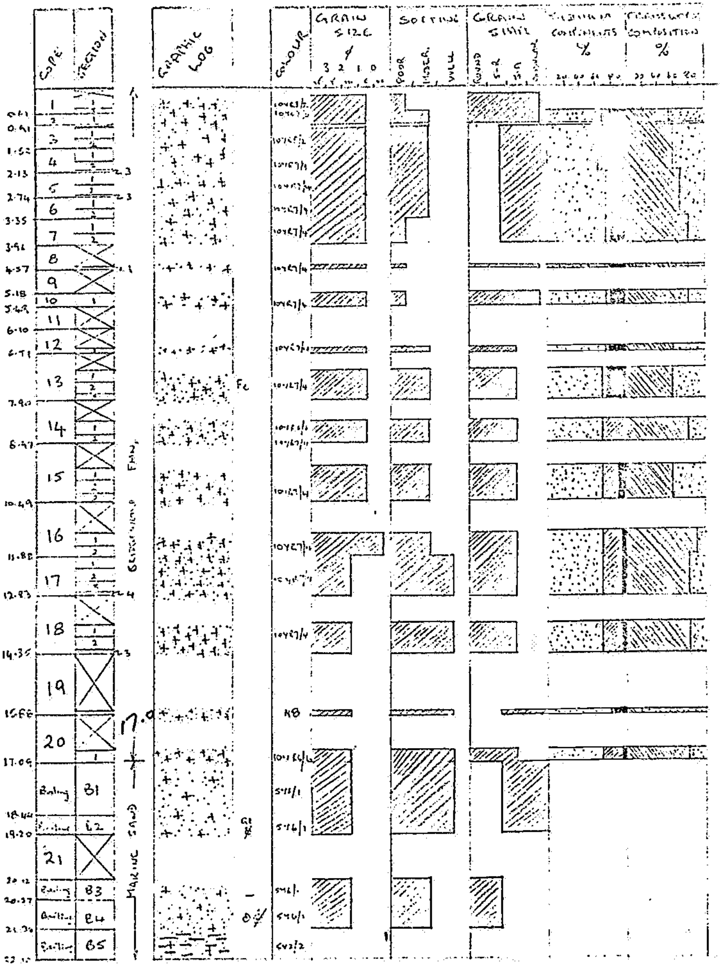

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE ϕ
3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
POOR MODER WELL
0
1·52
3·05
4·57
7·62
10·06
13·41
14·01
16·46
16·97
20·11
21·99
22·76
cutting C1
cuttings C2
cuttings C3
1
2
3
4
5
6
7
8
9
10
11
N7
5YR7/2
10YR7/4
5YR5/6 & 10YR8/2
5YR5/6 & N8
5YR5/6
5YR5/6
Mn
N8
5YR5/6
5YR5/6
10YR8/2
5YR4/4
10YR7/4
5YR5/6
(5Y6/1)
Mn
5YR5/6
10YR6/6
10YR8/2
Mn-Fe
10YR6/6
10YR8/2
N9-N8
Fe
22·
R.T


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
φ
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
SR
SA
ANGULAR
SEDIMENT COMPONENTS
%
20 40 60 80
FRAMEWORK COMPOSITION
%
20 40 60 80
INDURATION
POOR
MODER
WELL
25.38
27.13
30.18
30.79
33.83
35.20
35.59
35.89
36.50
36.58
39.62
41.00
43.59
11
12
13
14
15
16
17
18
19
20
21
22
no core recovered
"marine" sand
Gambier lst
39.5
5Y6/1
N8
5Y8/1
N8
5Y6/1
5Y6/1
5Y8/1
5Y8/1
10YR8/6
5Y8/1
N8
5GY6/1
N4
N6
N8
N8
N8

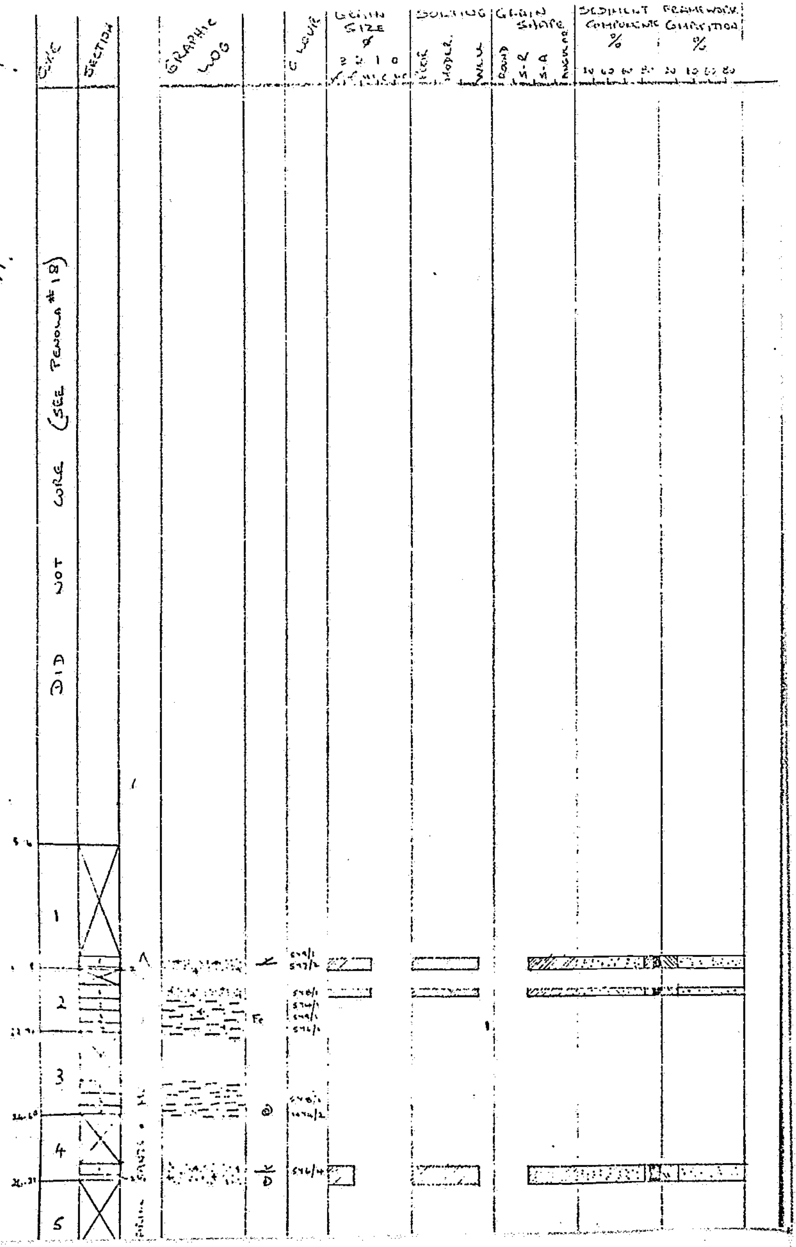
QP4 PENOLA No. 17.

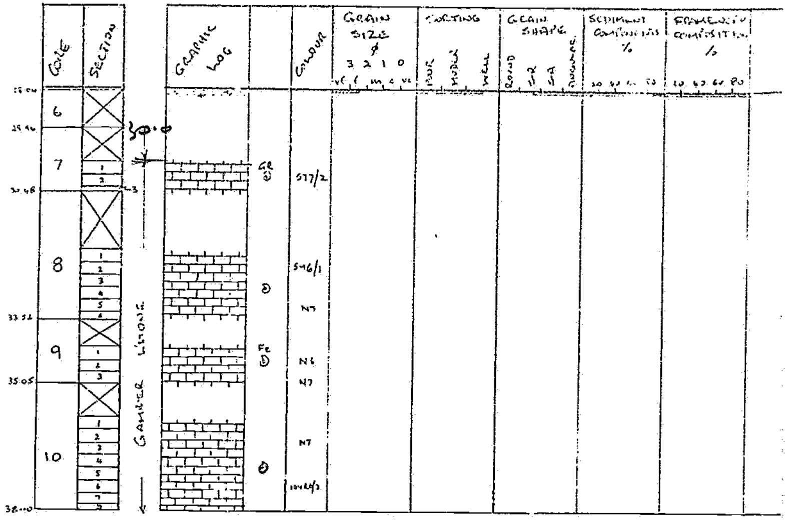


PENOWA 18


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
POOR
WELL
GRAIN SHAPE
%
%
0.61
0.91
1.52
2.13
2.74
3.35
5.18
6.10
7.90
10.49
11.88
15.66
17.09
18.44
19.20
20.37
Fe
NB
17.9
Bailing
B1
B2
B3
B4
B5
MARINE SAND

Penola #18A.


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
φ
SORTING
POOR
MODER.
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS
%
FRAMEWORK COMPOSITION
%
DID NOT CORE (SEE PENOLA # 18)
1
2
3
4
5
Fe

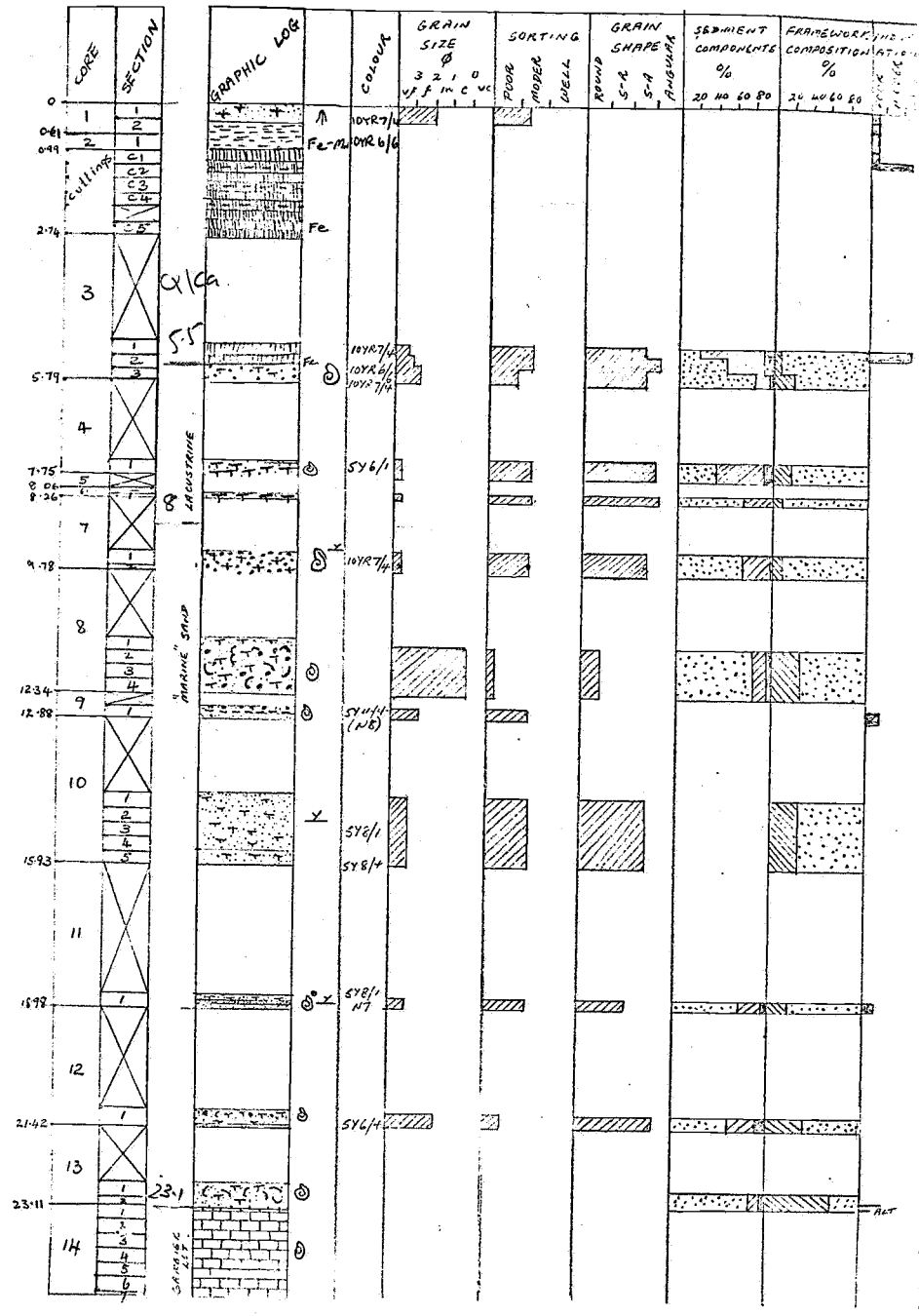


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
3 2 1 0
SORTING
GRAIN SHAPE
6
7
8
9
10
33.52
35.05
N7
N6

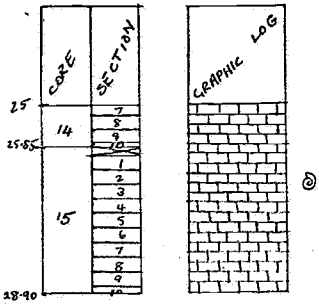
7023 16.

PENOLA 19

021



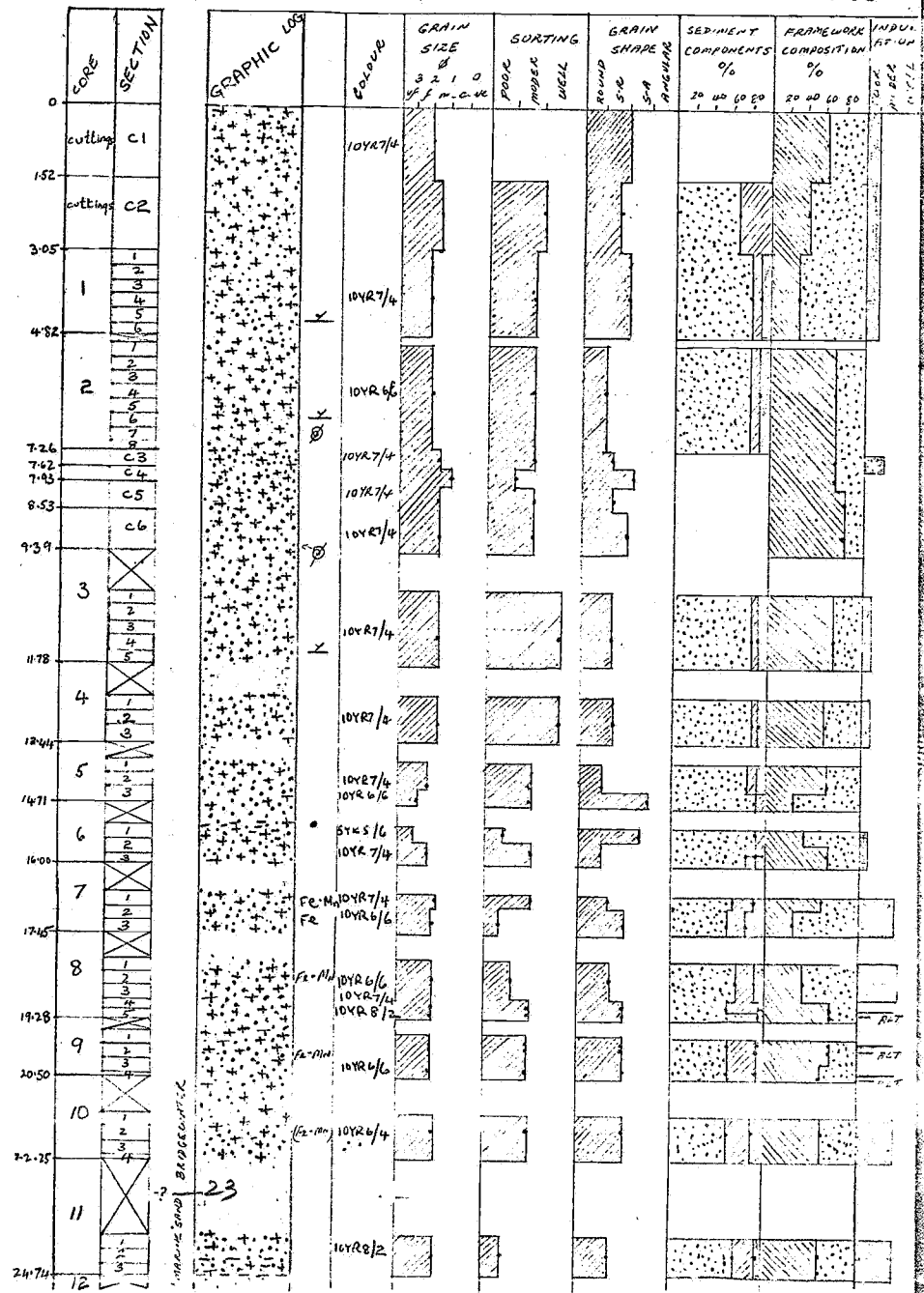
PENOLA 1977 (continued)

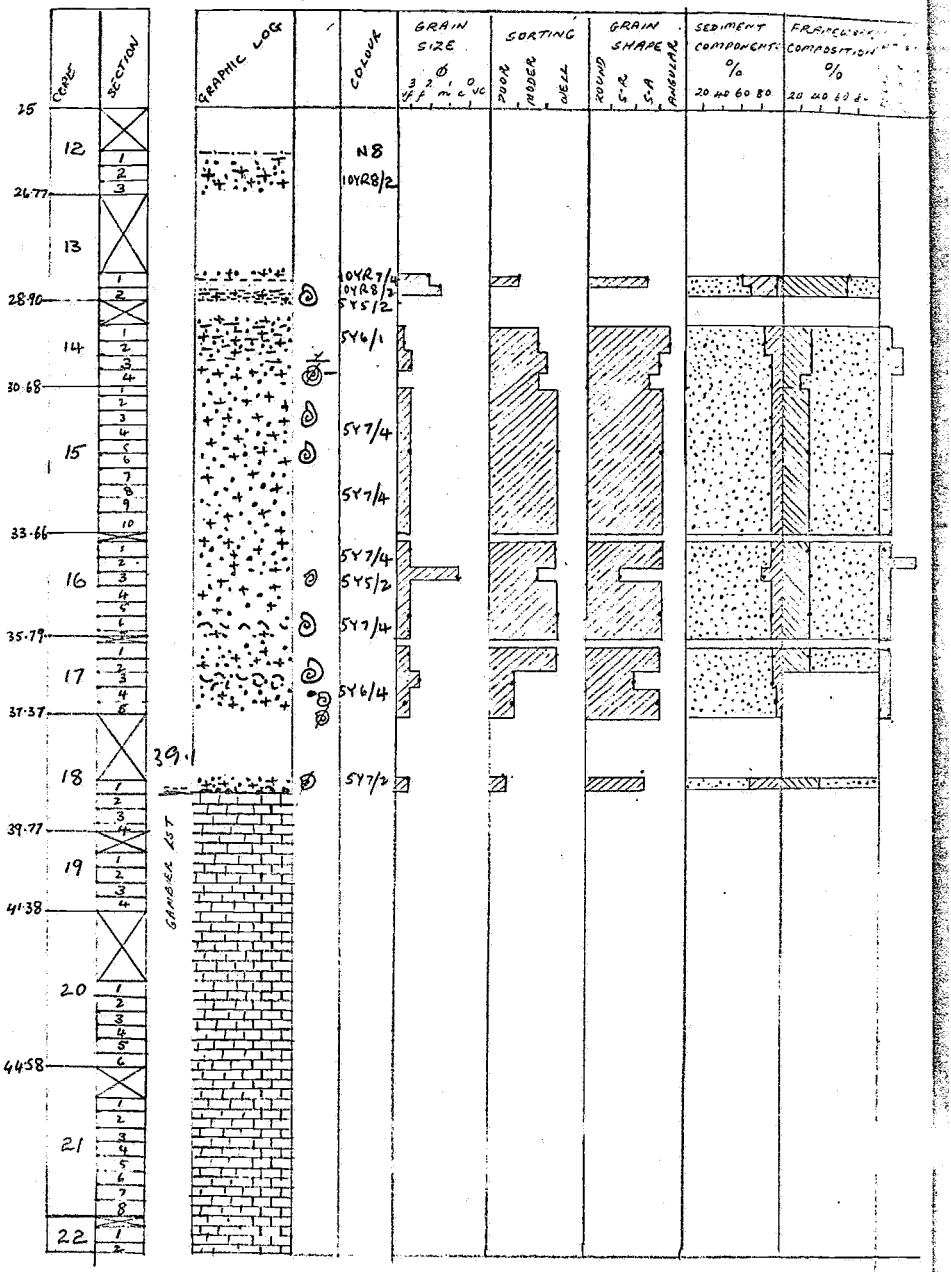


7024 361

PENOLA 20

023

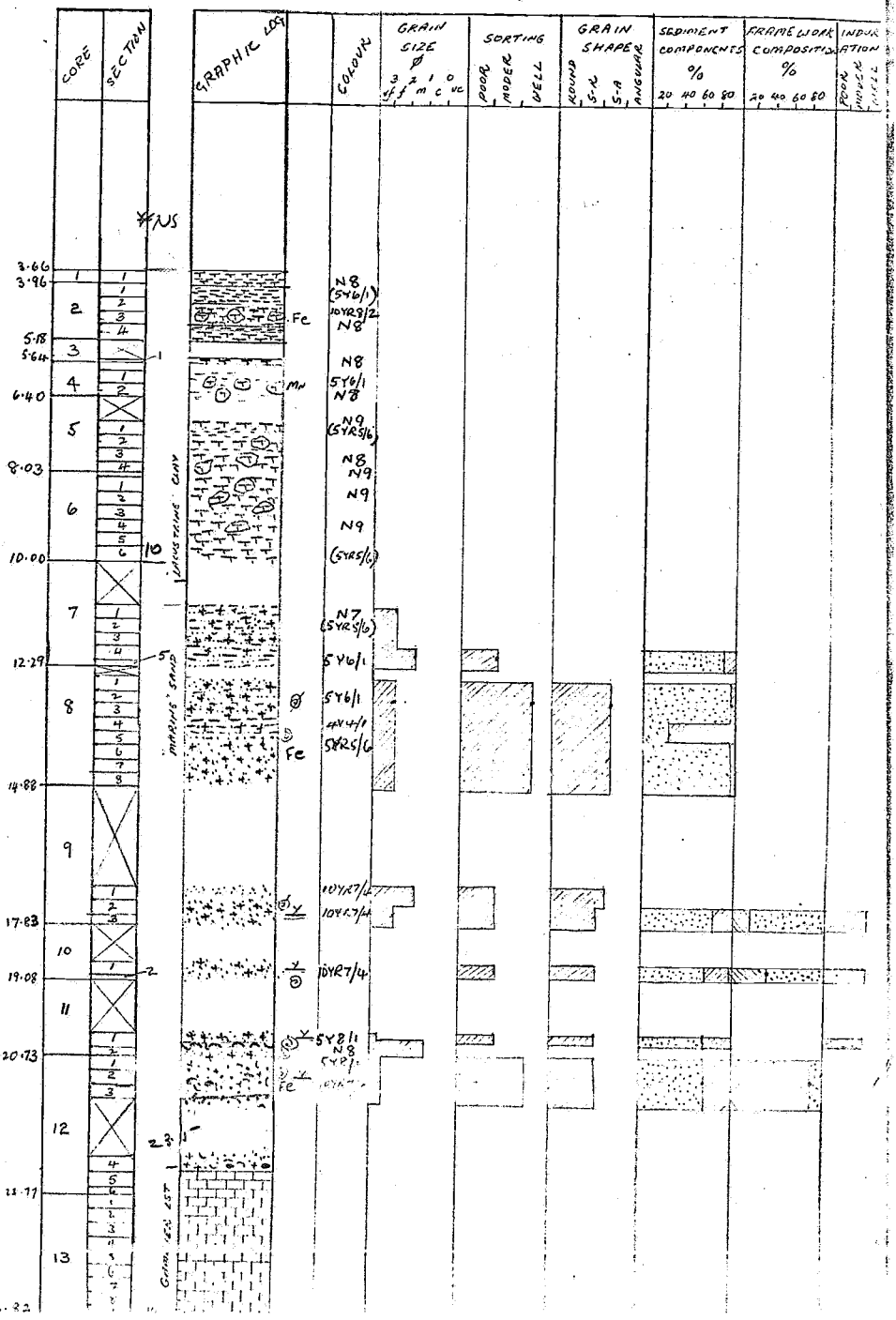



CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
Ø 3 2 1 0
vf f m c vc
SORTING
POOR MODER OEIL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENT %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 8
25
12
26.77
13
28.90
14
30.68
15
33.66
16
35.79
17
37.37
39.1
18
39.77
19
41.38
20
44.58
21
22
N8
10YR8/2
10YR7/4
10YR8/2
5Y5/2
5Y6/1
5Y7/4
5Y7/4
5Y7/4
5Y5/2
5Y7/4
5Y6/4
5Y7/2
GARDEN LST

7024 419

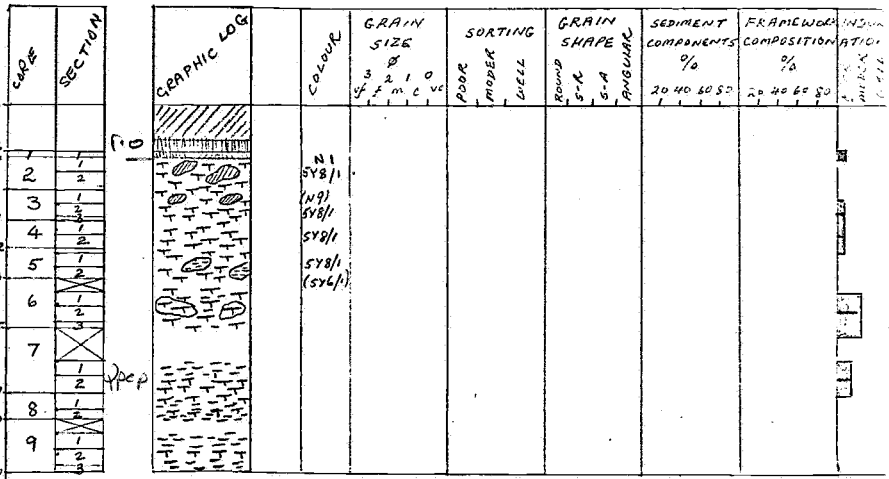
NARACOORTE 21

025

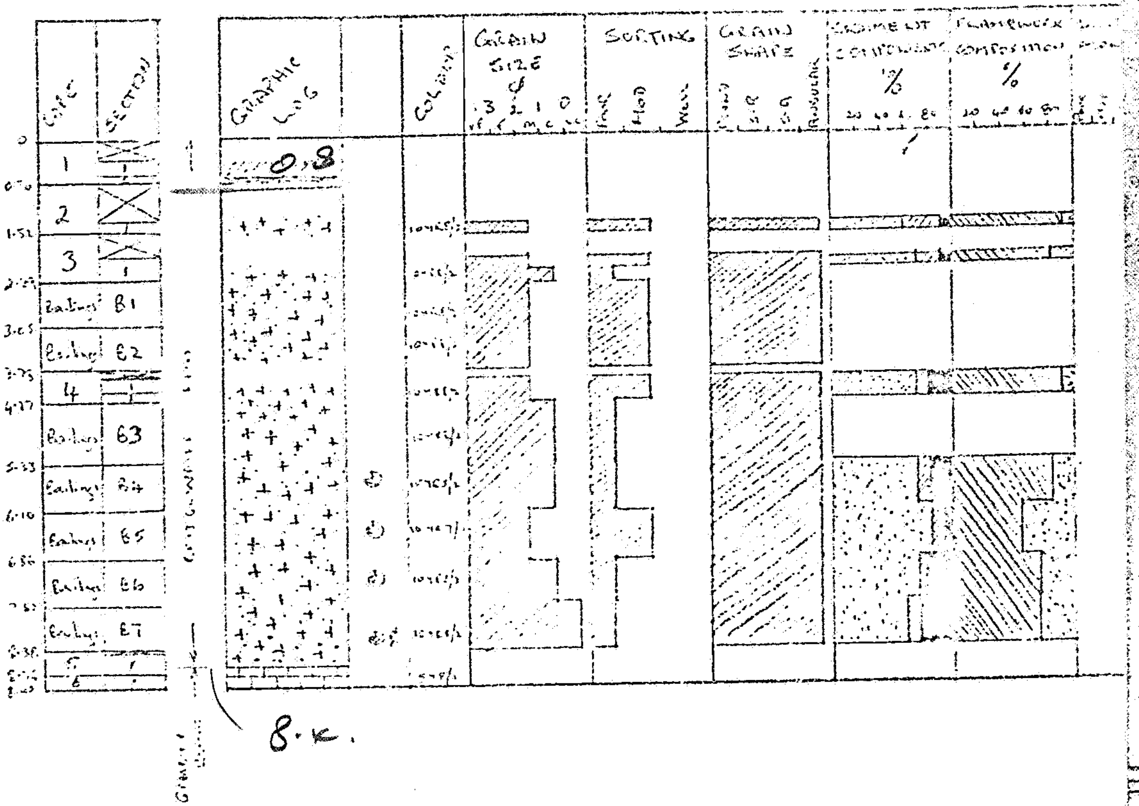


7024 420

NARA COORTE 21A



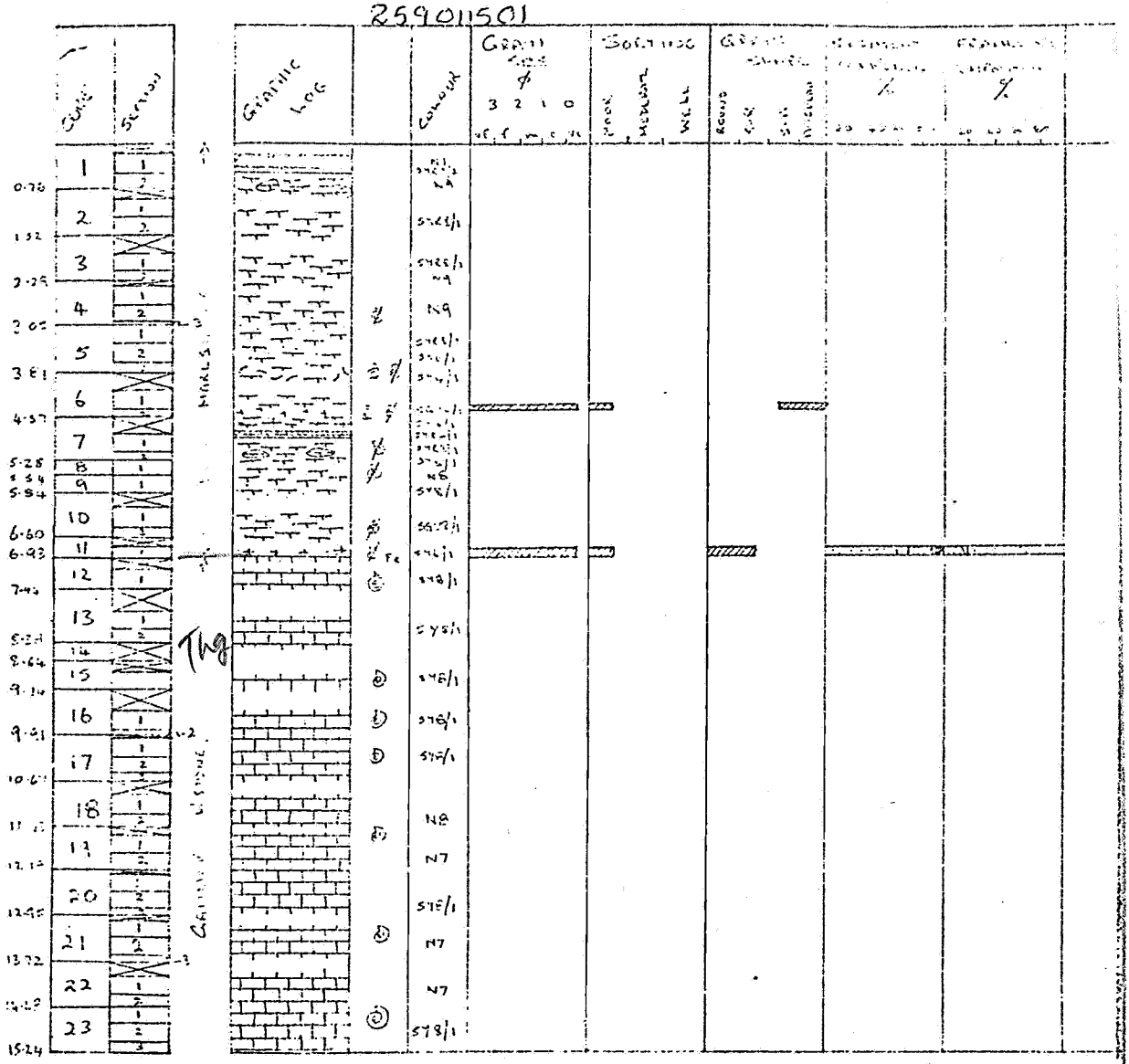
Penown 25.


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
GRAIN SHAPE
SEDIMENT COMPONENTS %
FRAMEWORK COMPOSITION %
8.K.

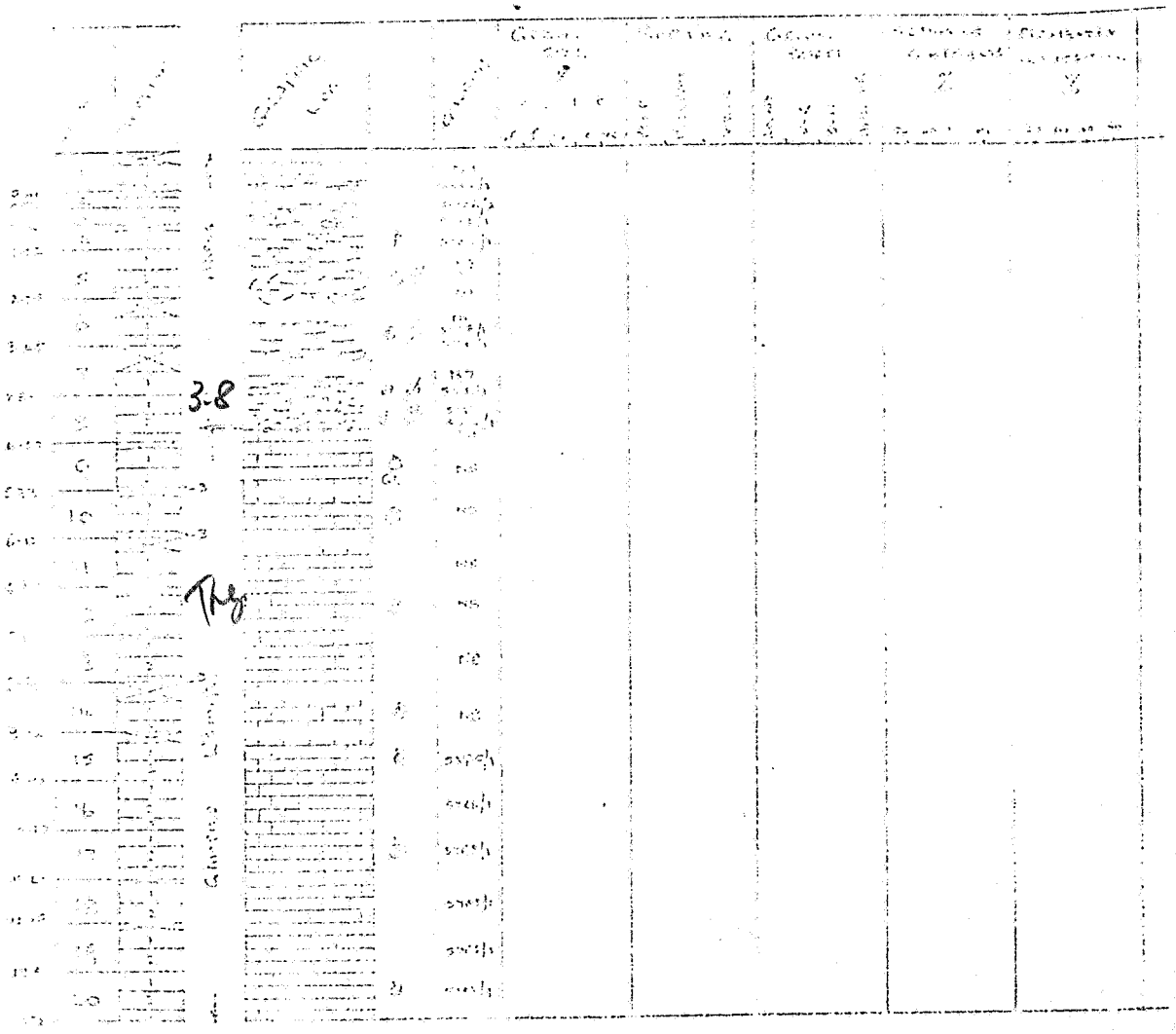
Qpcg

PENOLA # 26

259011501

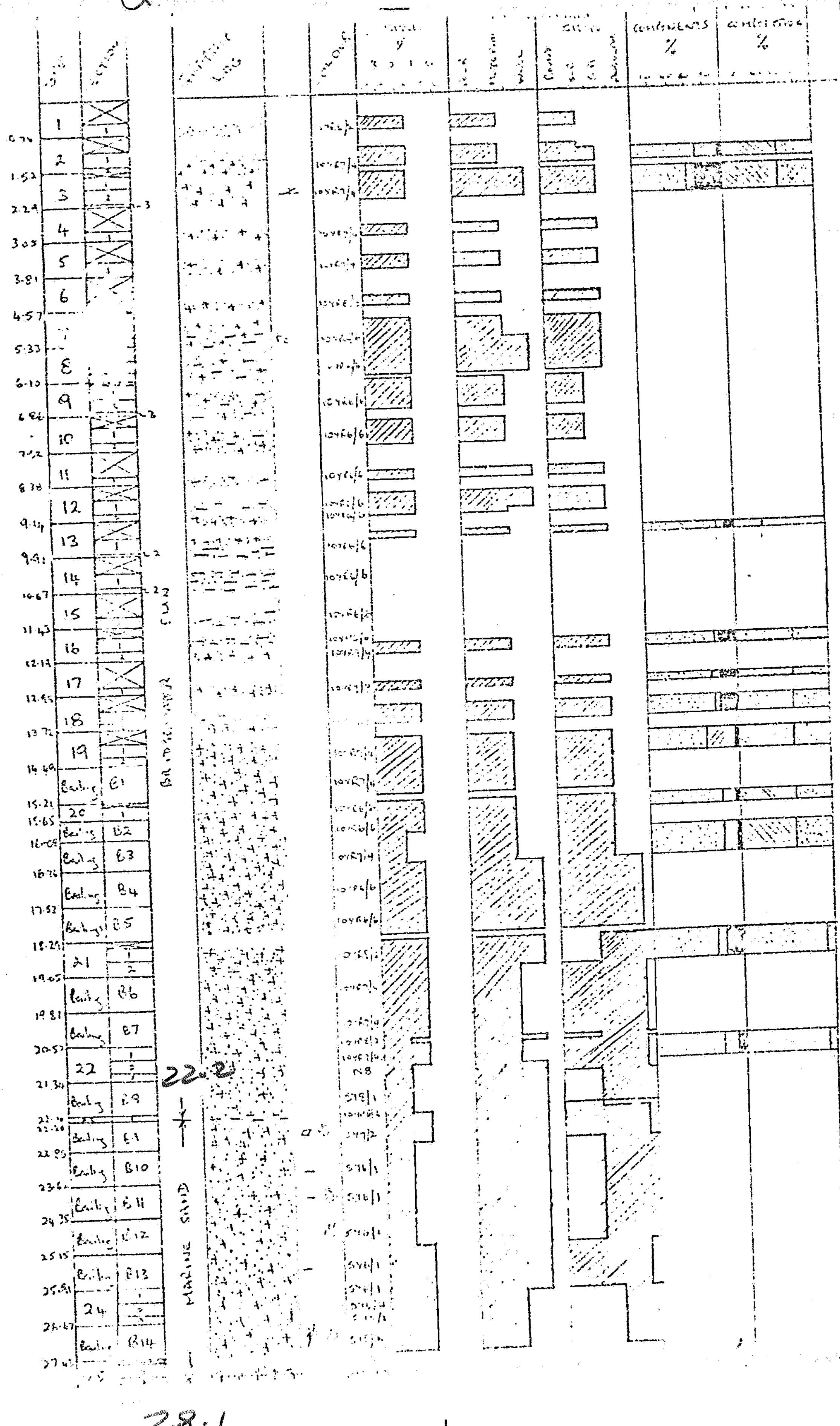


QPCP



Qpco.

BH #28.



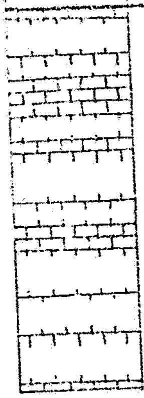
205100844

28.1

Depth	Core	Section		Colour
25.19	26	1		N8
25.96	27	1, 2		5Y8/1
29.72	28	1		5Y8/1
30.45	29			5Y8/1
31.24	30	1, 2		5Y8/1
32.00	31			5Y5/1
32.77	32	1		5Y8/1
33.53	33	1	[illegible]	5Y8/1
34.26				

Gamsiwz L'stone

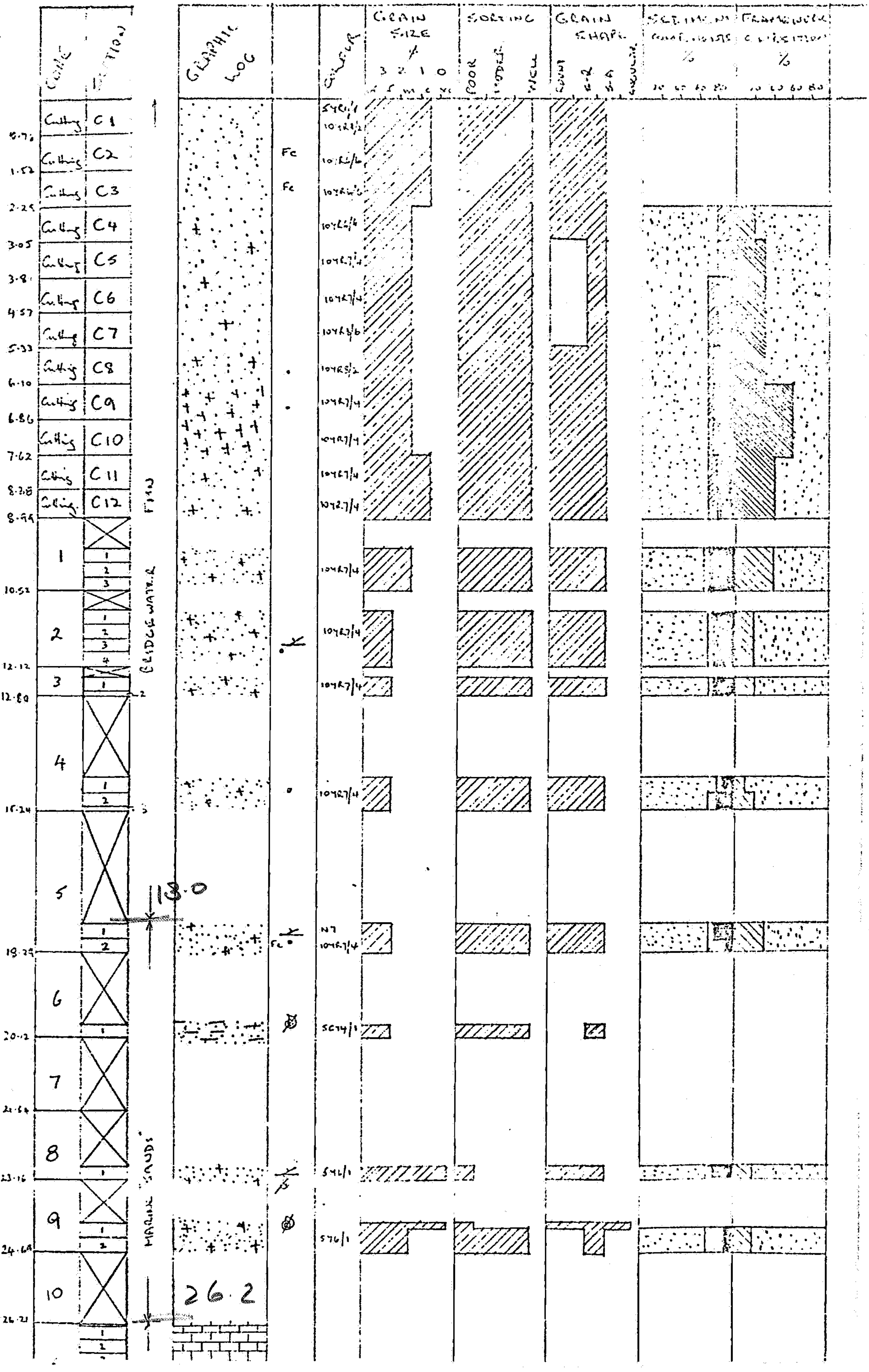
Graphic Log

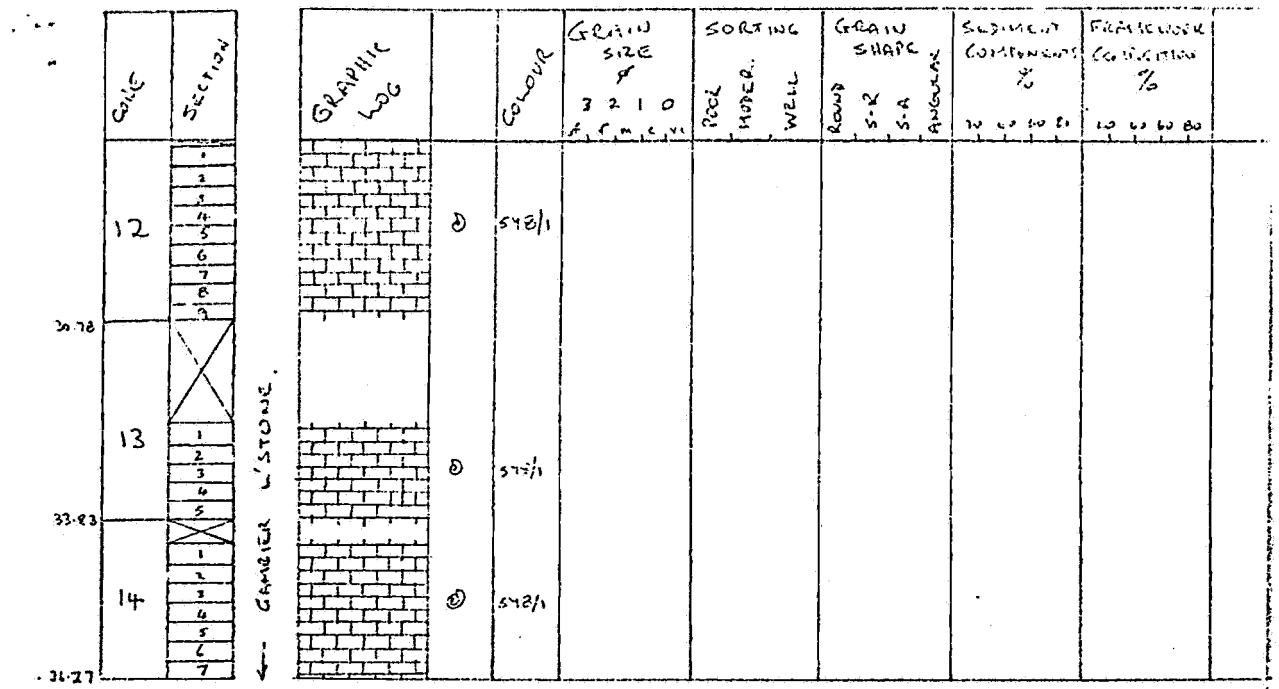


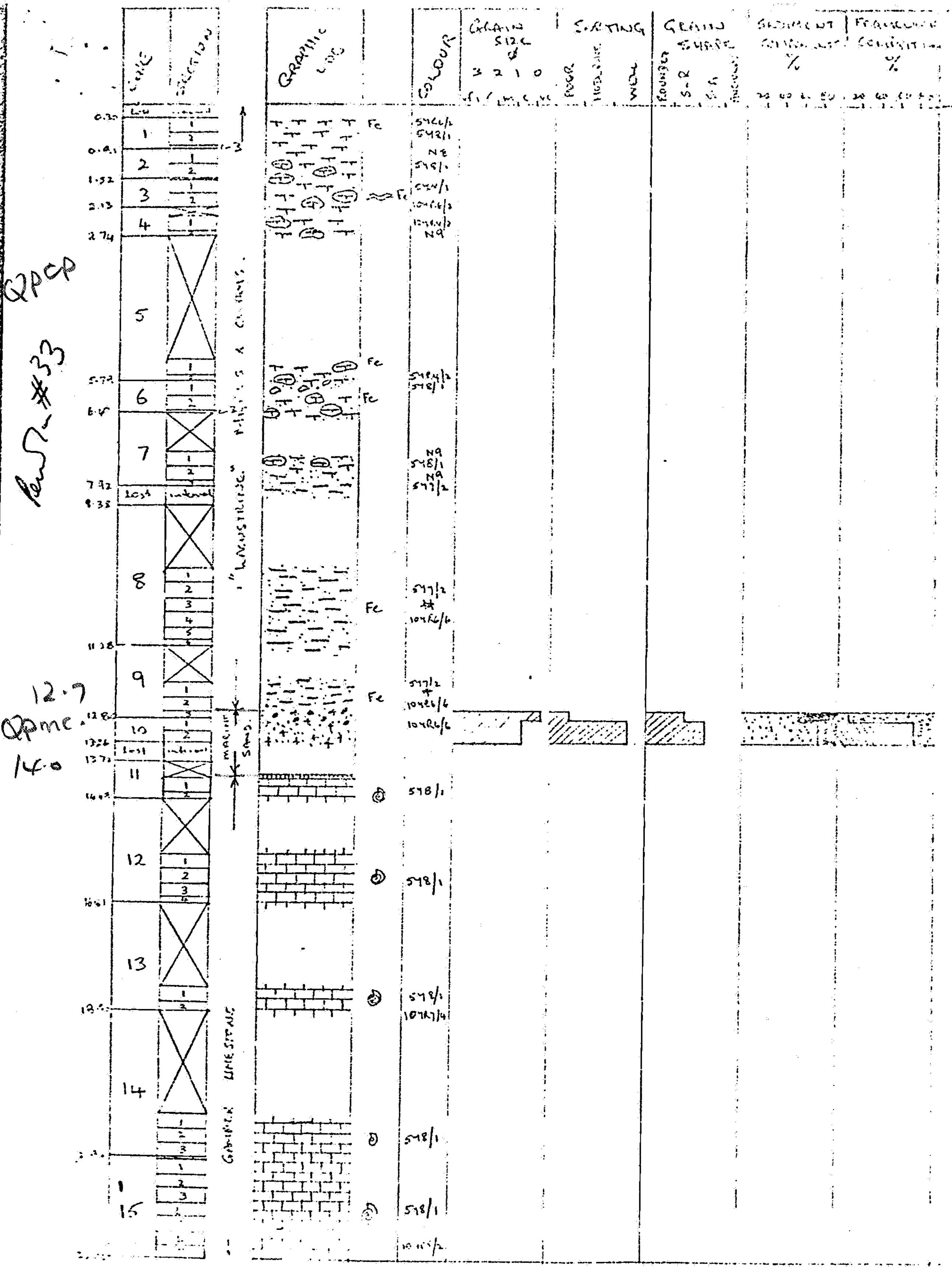
Pemba #28 (cont).

4980015C2.

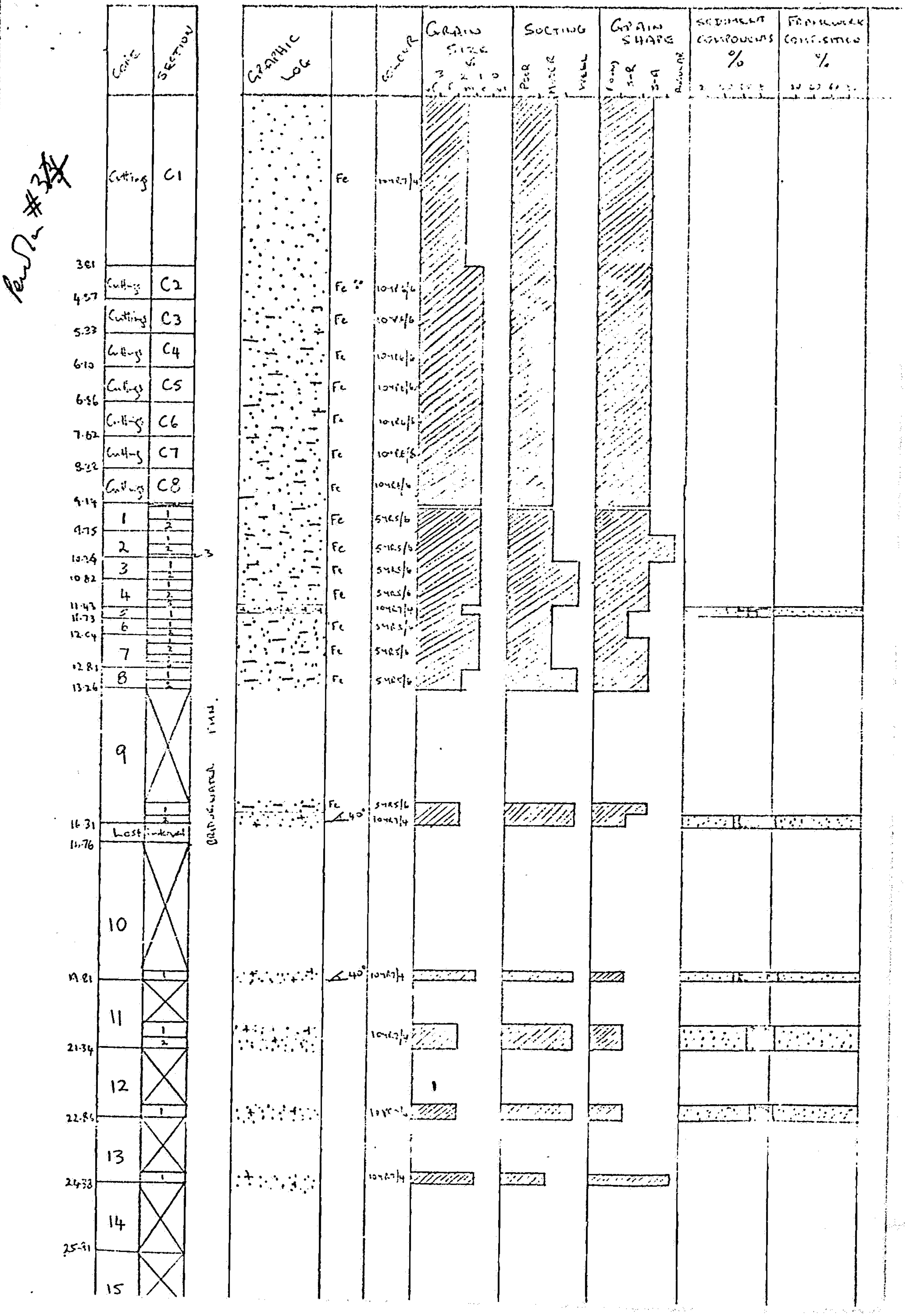
Rem Ta #29


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
POOR
MODERATE
WELL
GRAIN SHAPE
SEDIMENT CONSTITUENTS %
FRAMEWORK COMPOSITION %
Cutting C1
Cutting C2
Cutting C3
Cutting C4
Cutting C5
Cutting C6
Cutting C7
Cutting C8
Cutting C9
Cutting C10
Cutting C11
Cutting C12
0.76
1.52
2.29
3.05
3.81
4.57
5.33
6.10
6.86
7.62
8.38
8.99
10.52
12.12
12.80
15.24
18.29
20.12
21.64
23.16
24.69
26.21
1
2
3
4
5
6
7
8
9
10
Fe
BRIDGEWATER FMN
MARINE SANDS
18.0
26.2

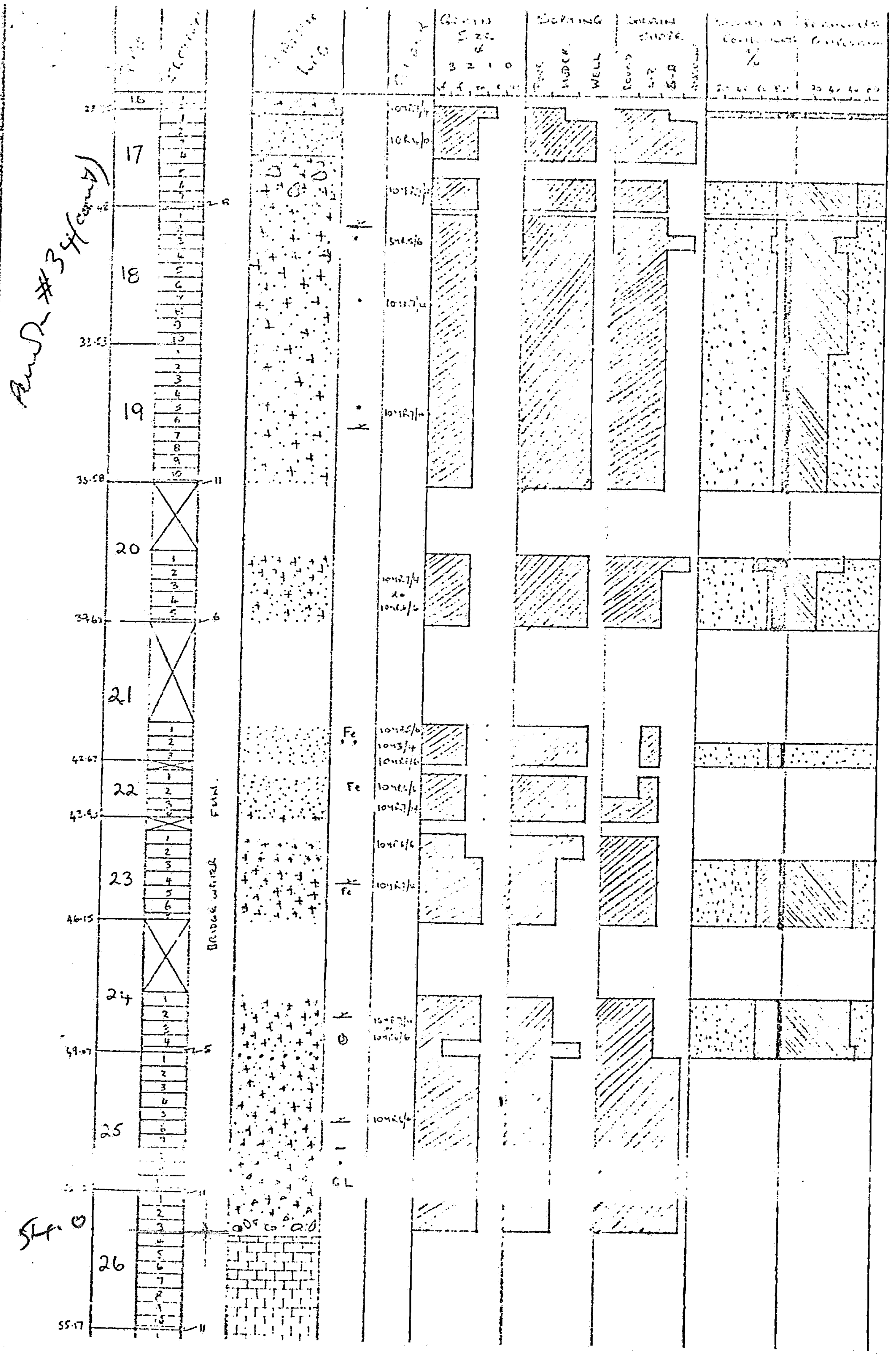

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
3 2 1 0
SORTING
POOR
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS
%
FRAMEWORK COMPOSITION
%
12
13
14
30.78
33.83
31.27
GAMBIER L'STONE.



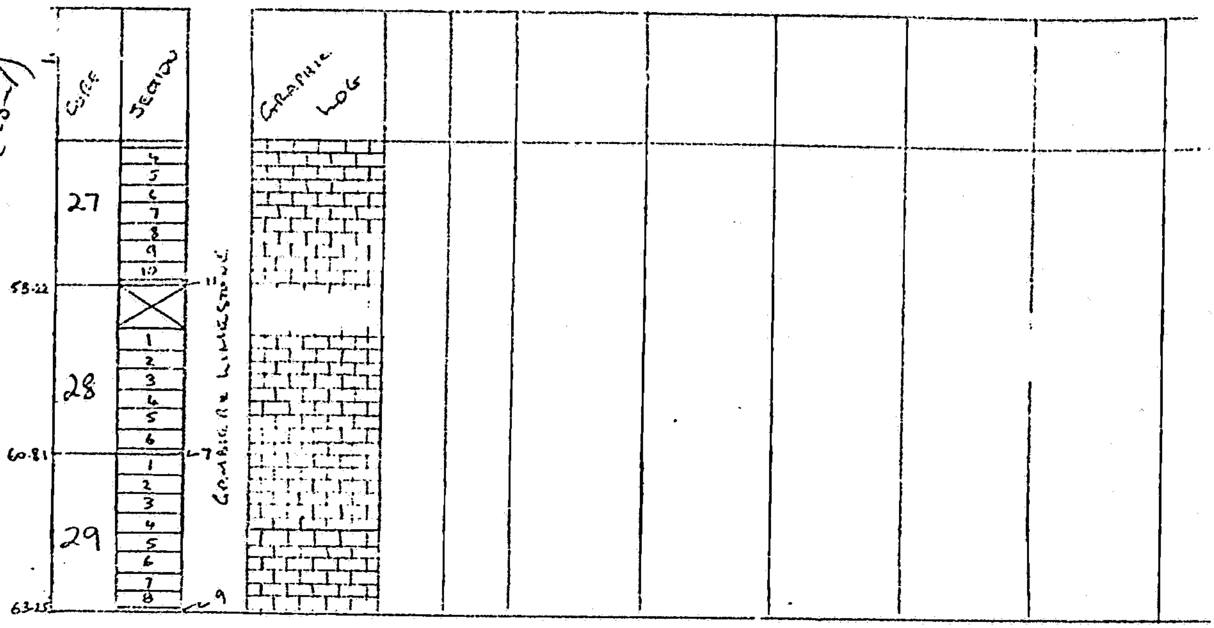
UNIT
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
POOR
WELL
GRAIN SHAPE
%
QPcp
12.7
QPmc.
14.0
0.30
0.91
1.52
2.13
2.74
7.92
9.35
11.28
Fe
N9
5Y8/1
548/1
10YR7/4
"LACUSTRINE"
MARINE SAND
LIMESTONE
GAMBIER



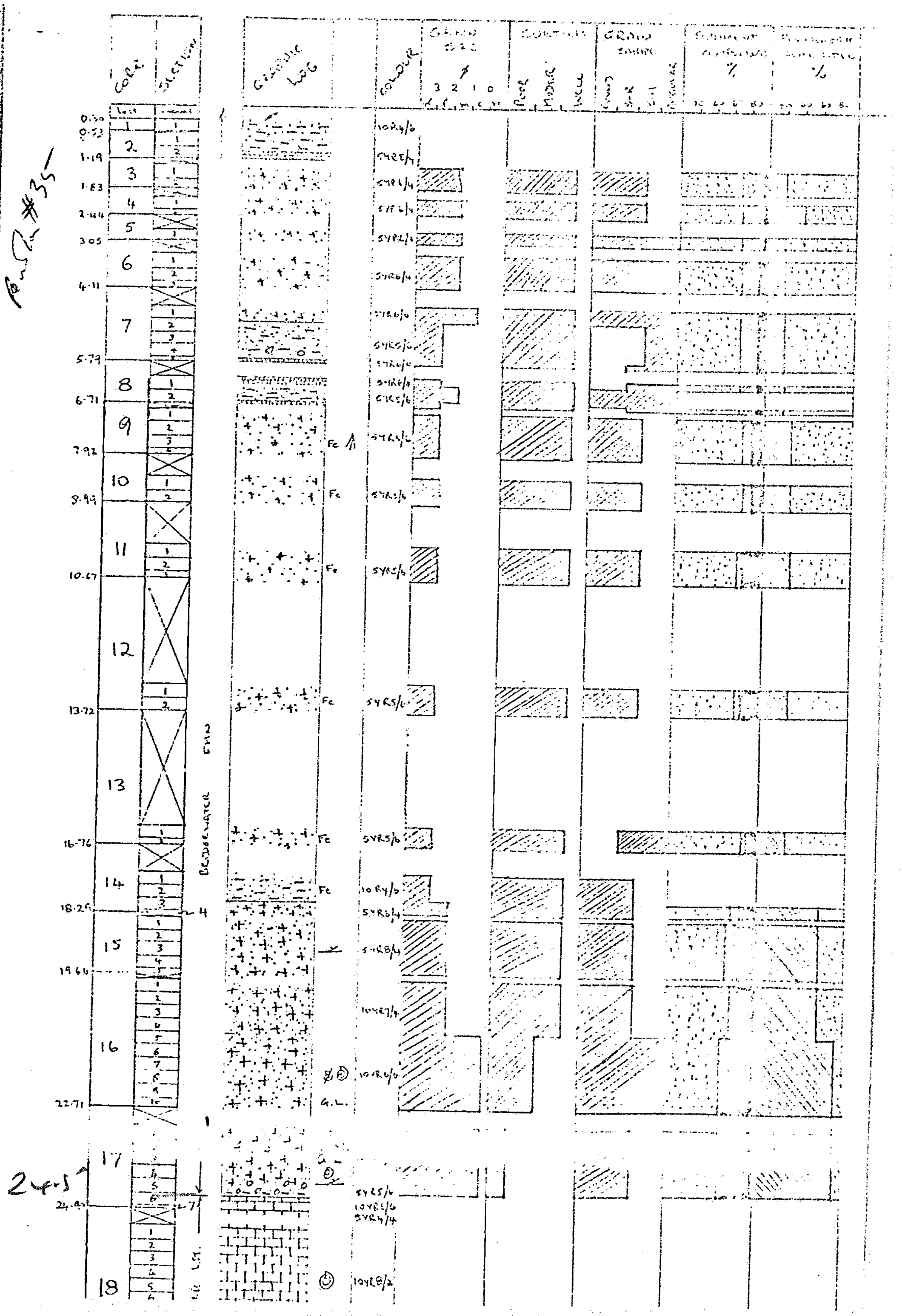
CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
POOR
WELL
GRAIN SHAPE
SEDIMENT COMPONENTS %
FRAMEWORK CONSTITUENTS %
Cutting C1
Fe
3.81
Cuttings C2
4.57
Cutting C3
5.33
C4
6.10
C5
6.86
C6
7.62
C7
8.38
Cutting C8
9.14
1
9.75
2
3
4
5
6
7
8
13.26
9
Fe
Lost interval
10
∠40°
11
21.34
12
22.86
13
24.38
14
25.91
15


Run #34 (cont'd)
SORTING
WELL
16
17
18
19
20
21
22
23
24
25
26
33.53
35.58
42.67
46.15
49.07
55.17
Fe
FUN.
BRIDGE WATER
CL

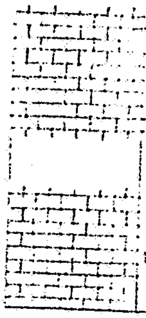
[illegible] #34 (cont)



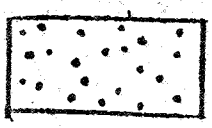
CORE
SECTION
GRAPHIC LOG
27
28
29
58.22
60.81
63.25
GAMBIER LIMESTONE


CORE
SECTION
GEOLOGIC LOG
COLOUR
0.30
0.53
1.19
1.83
2.44
3.05
4.11
5.79
6.71
7.92
8.99
10.67
13.72
16.76
18.29
19.66
22.71
24.41
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
Fe
10R4/6
5YR5/4
5YR6/4
5YR5/6
10YR7/4
10YR6/6
10YR8/2
BEDOUWATER FM.
24.51

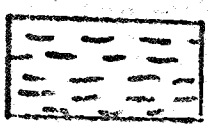
Ken Dan #35

Depth	Core	Section	Graphic Log		Colour	Grain Size ϕ (3 2 1 0; vf f m c vc)	Sorting (Poor, Mod, Well)	Grain Shape (Round, S-R, S-A, Angular)	Sediment Components % (20 40 60 80)	Framework Composition % (20 40 60 80)
28.64	19	1, 2, 3	 Coquina LST.		N9 / 10YR8/2					
30.02	20	1, 2			10YR8/2					
30.78	21	1, 2, 3, 4, 5, 6		Fe	N9 / 10YR8/2					
33.53										

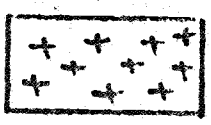
INTERPRETED LOGS



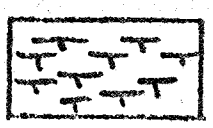
Quartzose sand / sandstone



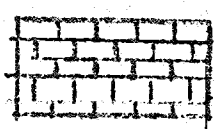
clay / claystone



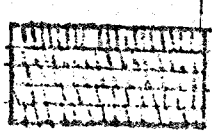
calcarenite



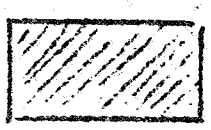
calcilutite



Gambier Limestone

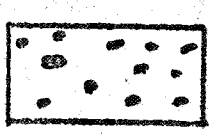


Calcrete

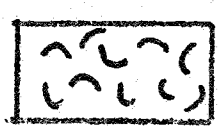


Soil

Chert



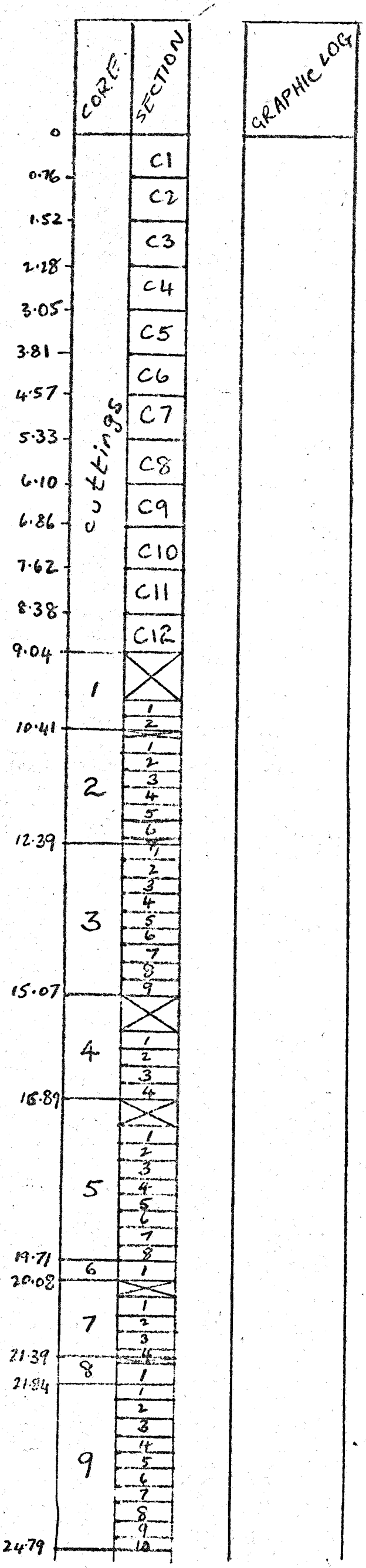
Quartz granules and pebbles

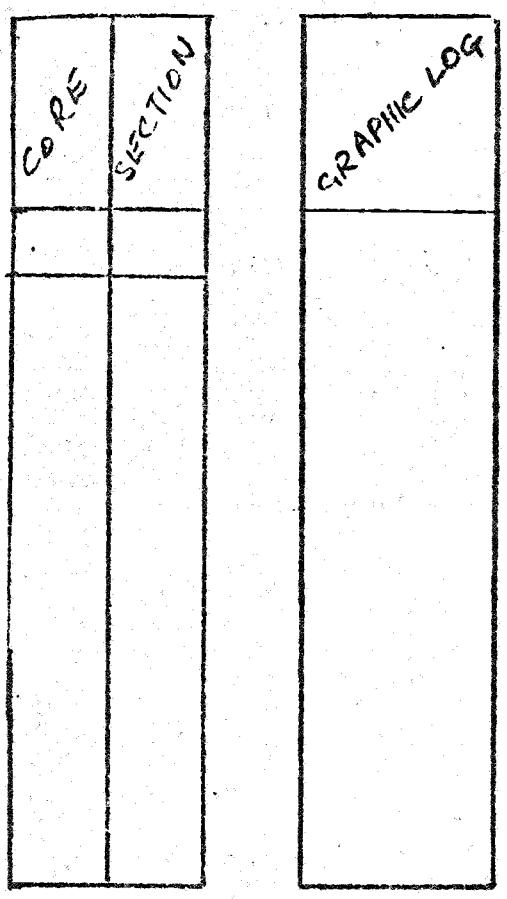


Shell grit

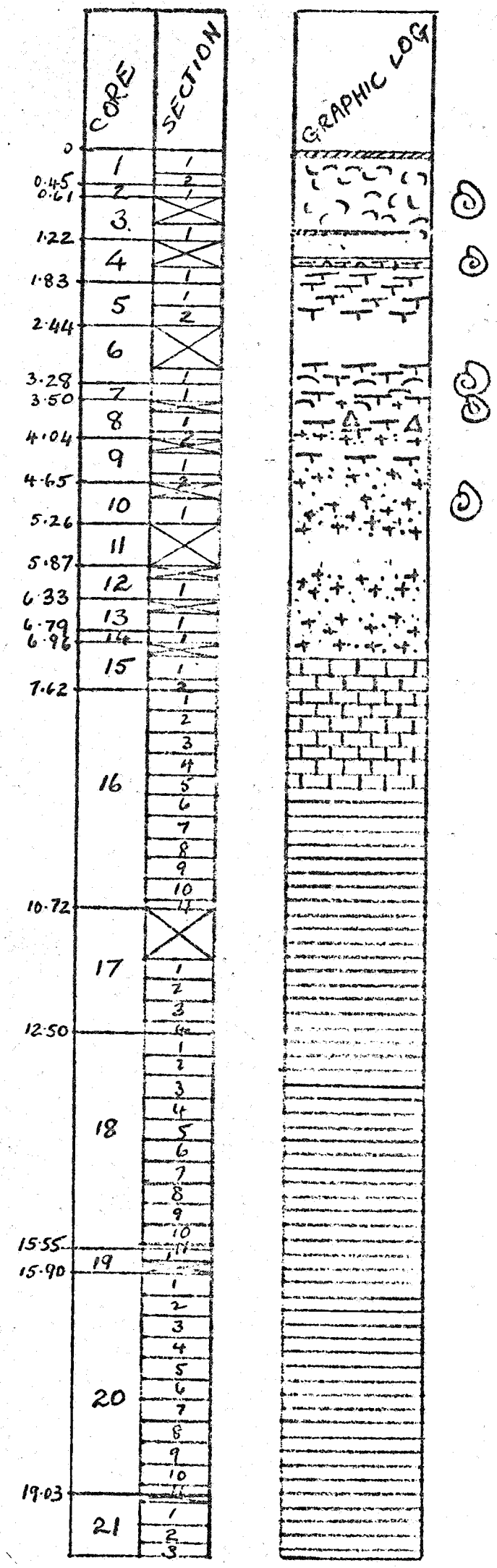
PENOLA 4

028


CORE
SECTION
GRAPHIC LOG
cuttings
0
0.76
1.52
2.28
3.05
3.81
4.57
5.33
6.10
6.86
7.62
8.38
9.04
10.41
12.39
15.07
16.89
19.71
20.08
21.39
21.84
24.79
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
1
2
3
4
5
6
7
8
9


CORE
SECTION
GRAPHIC LOG

PENOLA 5

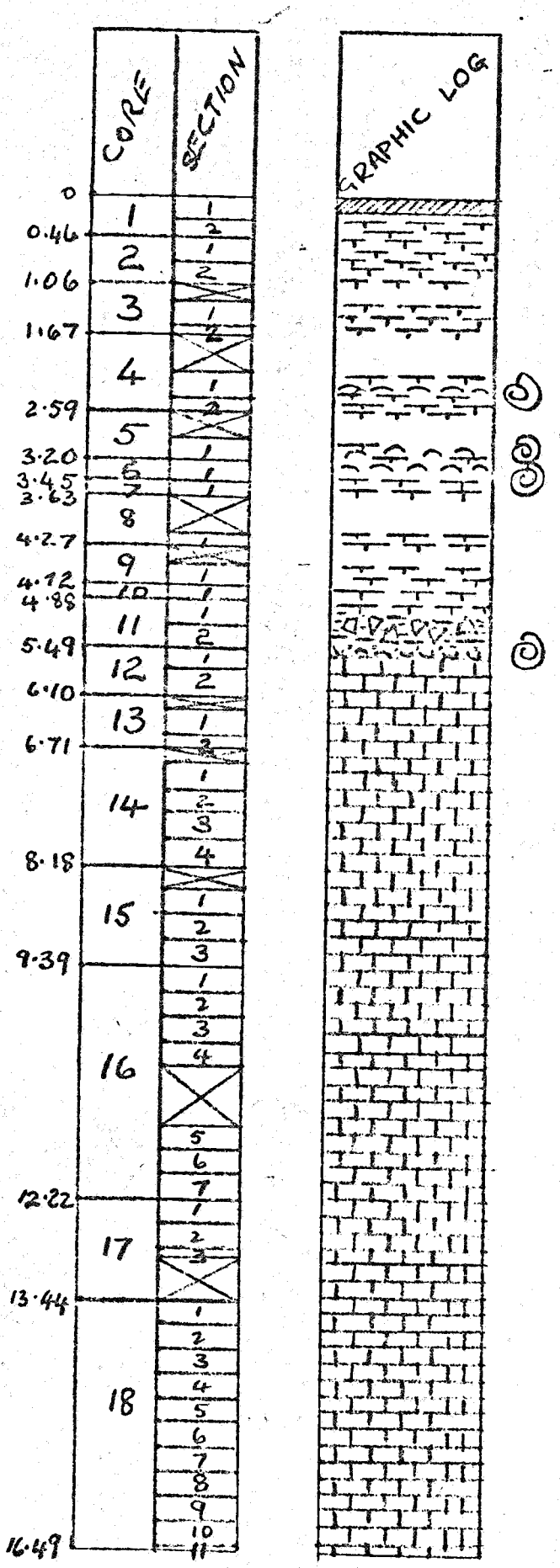


LACUSTRINE CLAYS

MARINE SAND

GAMBIER LIMESTONE

PENOLA No. 7



LACUSTRINE CLAY

MARINE SHELL "GRIT"

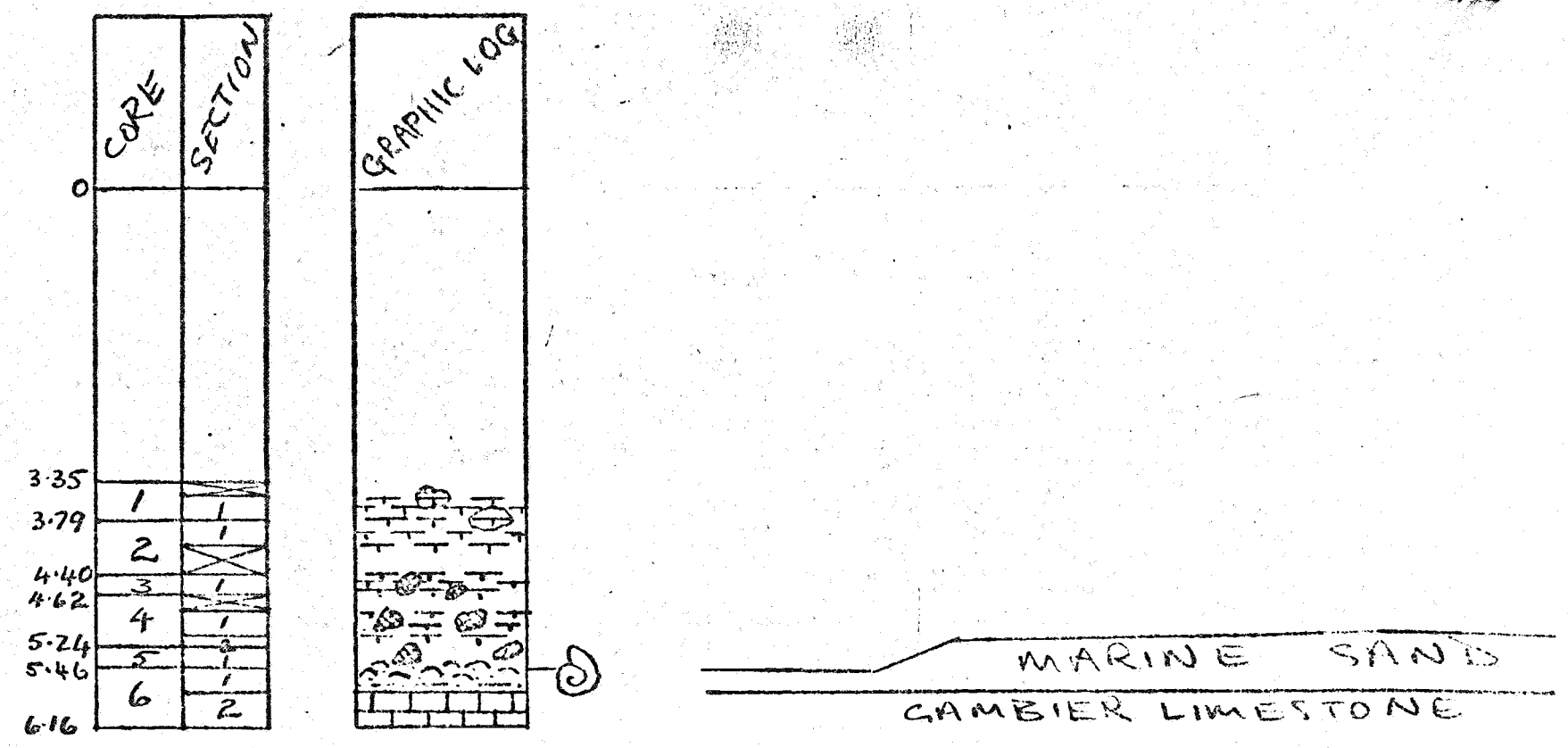
LACUSTRINE CLAY

MARINE SAND

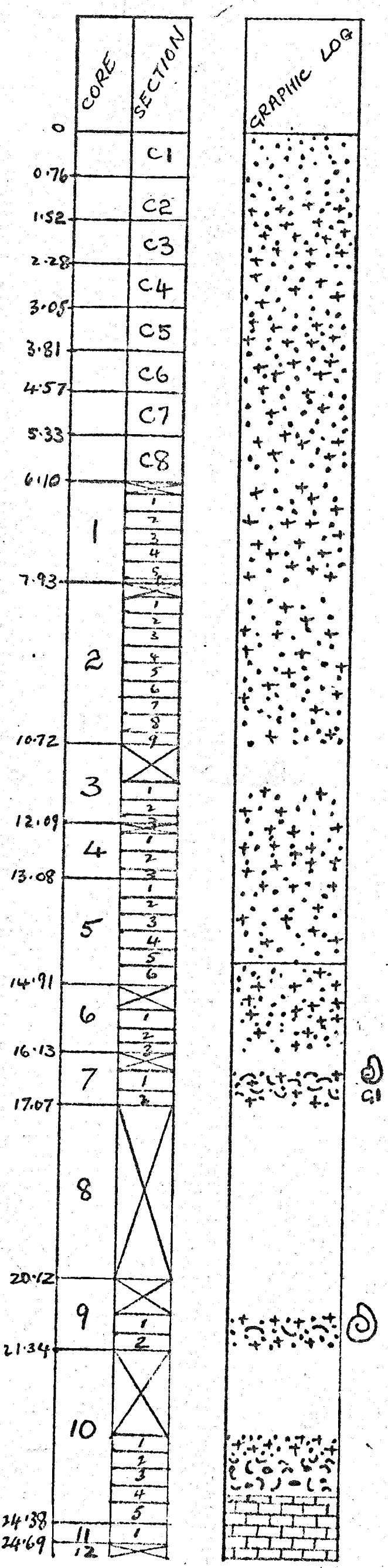
GAMBIER LIMESTONE

PENOLA 7A

032



PENOLA No. 8



10YR8/2
10YR7/4

10YR8/2
10YR8/6

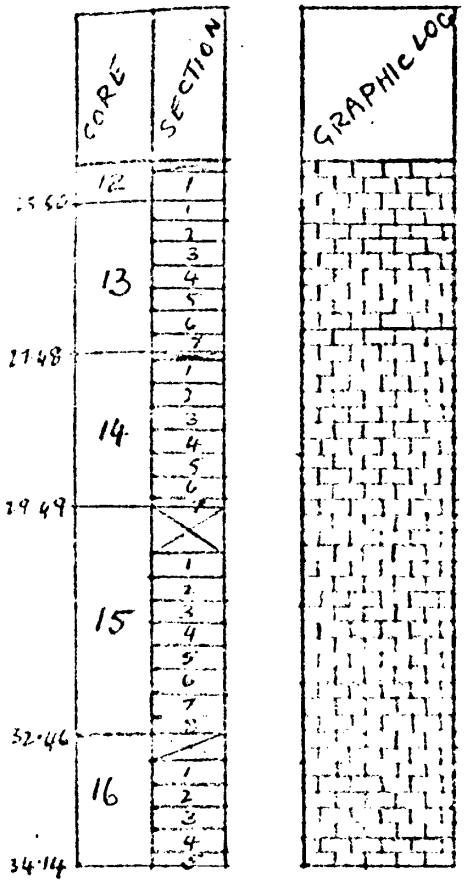
N8

N9
N8

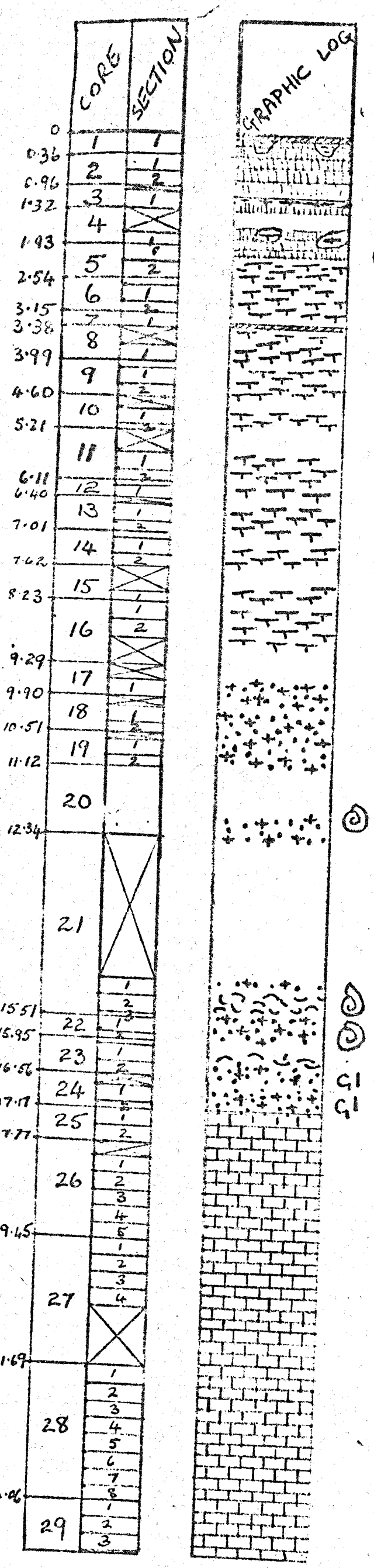
BRIDGEWATER
MARINE SAND.

GAMBIER LIMESTONE

PENOLA No 8A (continued)



PENOLA No. 11. 035



"LACUSTRINE" CLAY

"MARINE" SAND

GAMBIER LIMESTONE

PENOLA No. 11A

036

	CORE	SECTION
0	1	1
0.36		
0.96	2	1
1.32	3	1
1.93	4	1
2.54	5	2
3.15	6	1
3.38	7	1
3.99	8	1
4.60	9	1
5.21	10	1
6.11	11	1
6.40	12	1
7.01	13	1
7.62	14	1
8.23	15	1
9.29	16	2
9.90	17	1
10.51	18	1
11.12	19	1
12.34	20	2
15.51	21	1
15.85	22	1
16.56	23	1
17.17	24	1
17.77	25	1
19.45	26	1
21.69	27	1
24.06	28	1
	29	1

GRAPHIC LOG

This is a hard layer. It hardened after exposure at ground surface could be called calcrete.

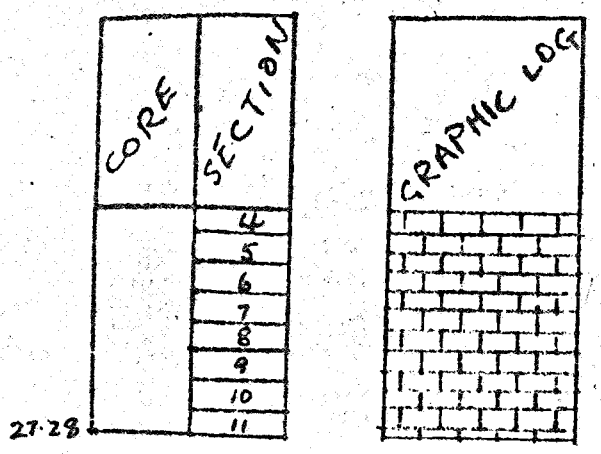
N9 "LACUSTRINE" CLAY

"MARINE" SAND

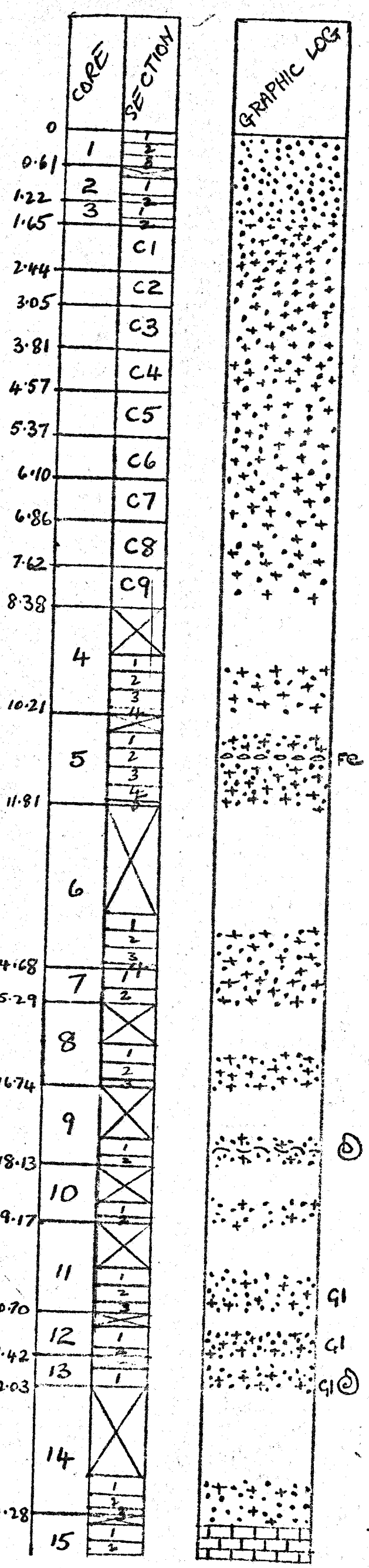
GAMBIER LIMESTONE

11 B.

037



PENOLA 12



5YR5/6

BRIDGEWATER

"MARINE" SAND

N9

GAMBIER LIMESTONE

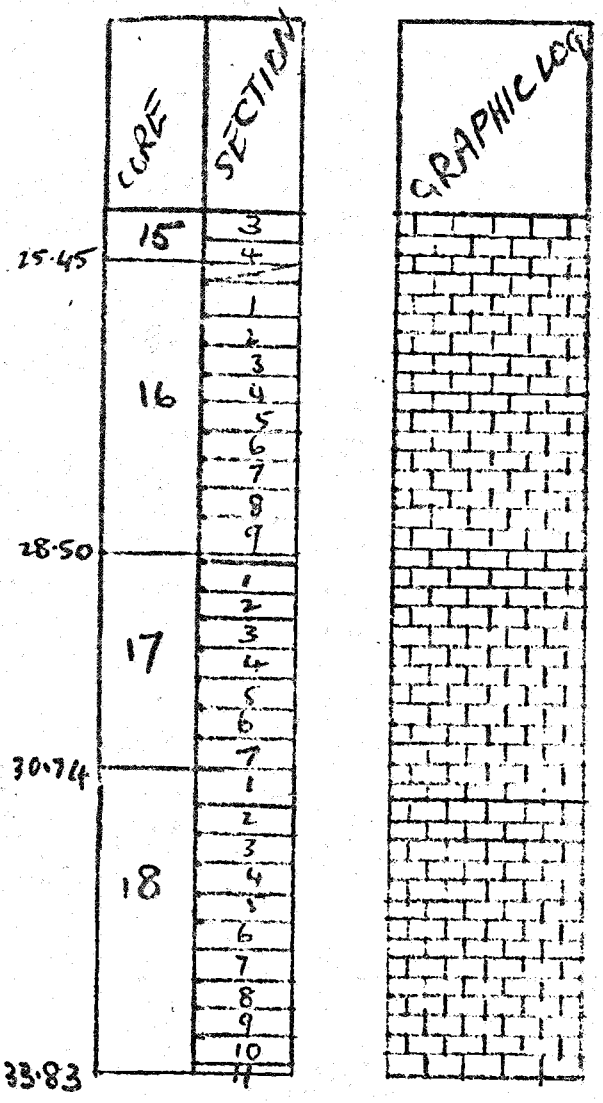
PENOLA 12A

039

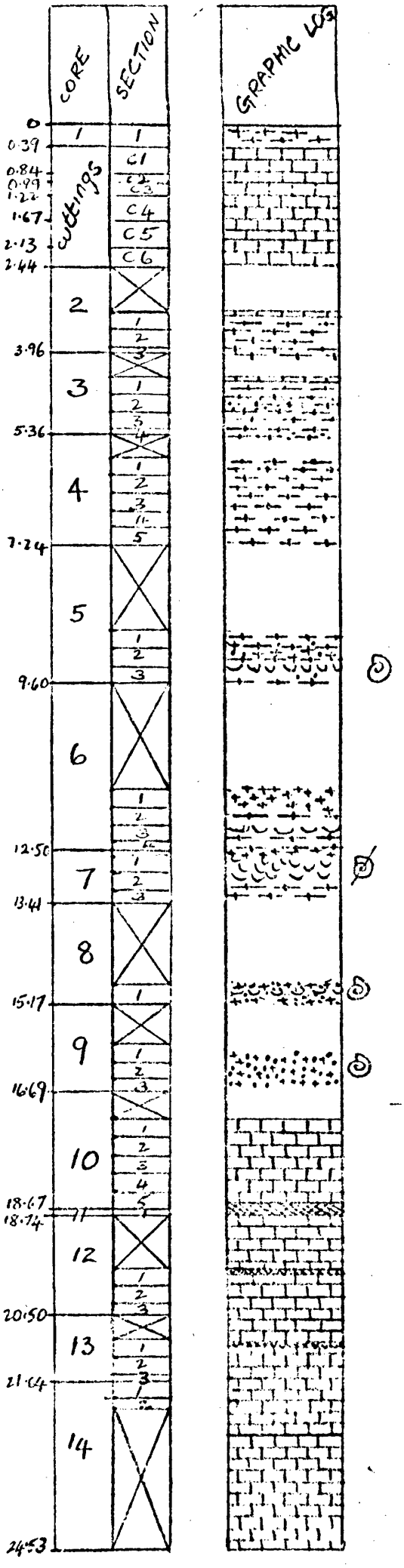
CORE	SECTION	GRAPHIC LOG	
0			Pale yellow sand Upper phase Molineria
0.61	1		
1.22	2		
1.65	3		← Lower Phase Molineria
	C1		Bridgewater. Mod. hard calcarenite containing sand size clasts of quartz & shell.
2.44	C2		
3.05	C3		
3.81	C4		
4.57	C5		
5.37	C6		
6.10	C7		
6.86	C8		
7.62	C9		
8.38	4		
10.21	5		Fe 5YR5/6 BRIDGEWATER
11.81	6		N9 MARINE SAND.
14.68	7		
15.29	8		
16.74	9		
18.13	10		
19.17	11	G1	
20.70	12	G1	
21.42	13	G1	
22.03	14		
24.28	15		GAMBIER LIMESTONE

PENOLA No 12B.

040



PENOLA 15



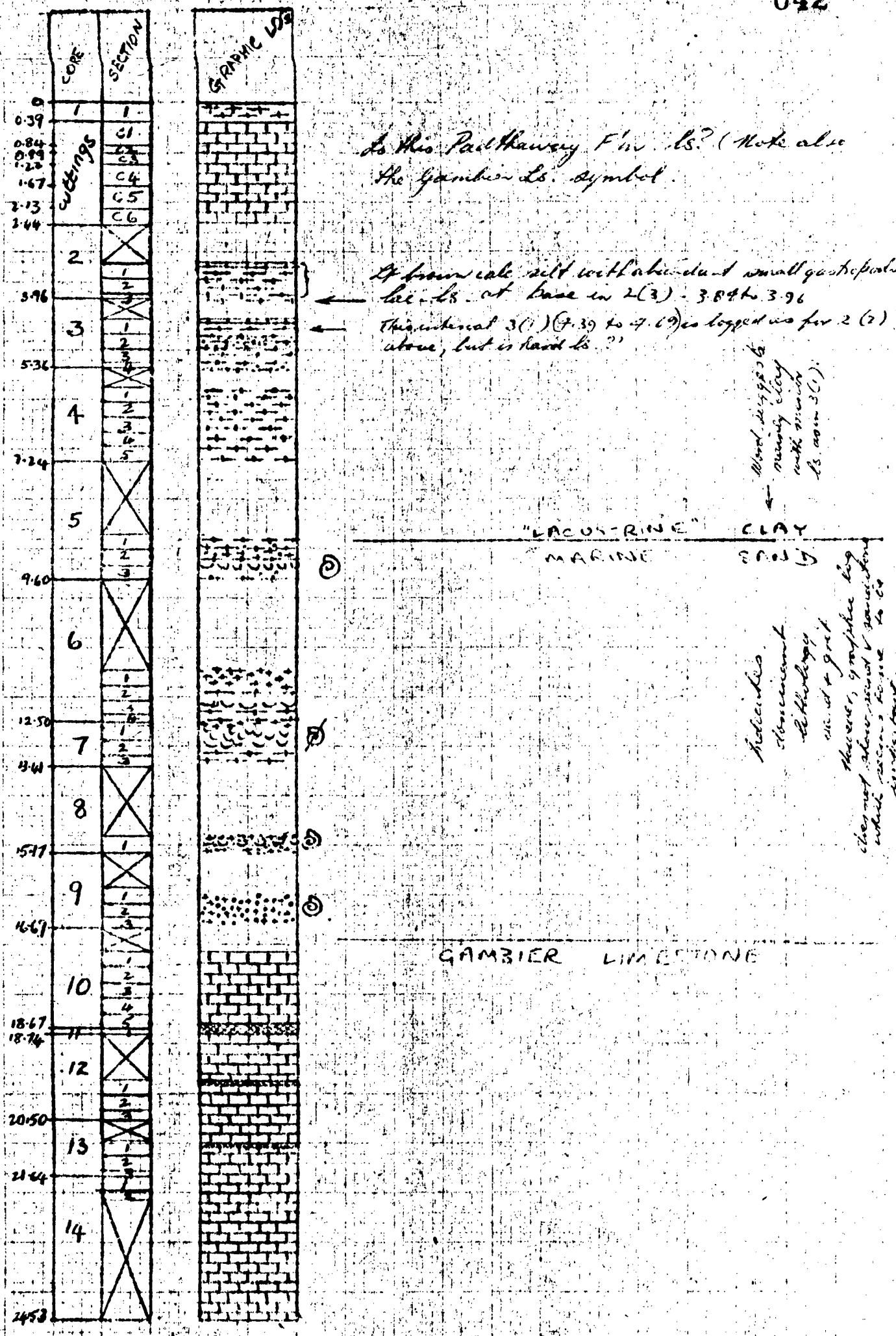
"LACUSTRINE" CLAY

"MARINE" SAND

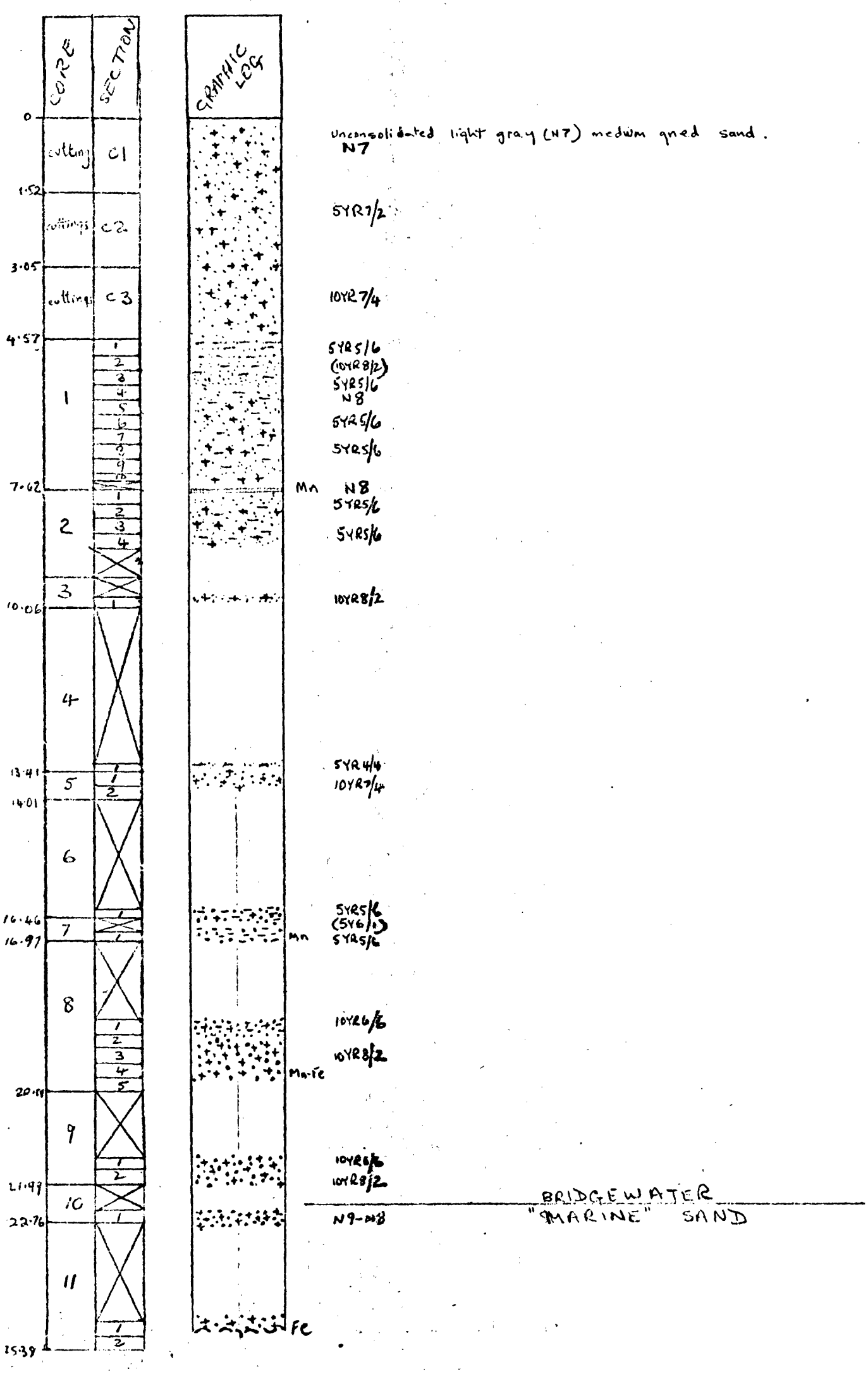
GAMBIER LIMESTONE

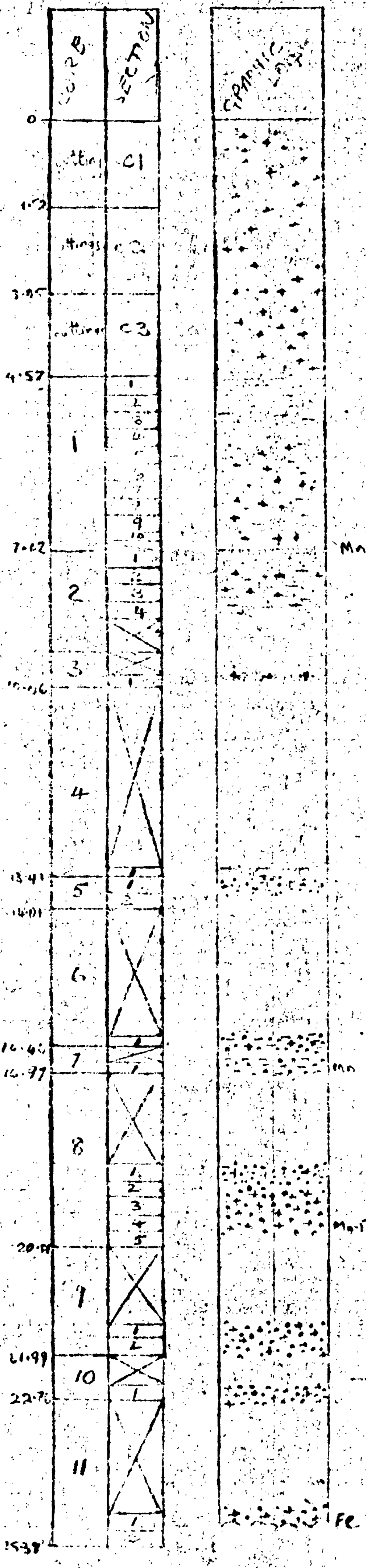
PENOLA 1SA

042



PENOLA No 16


CORE
SECTION
GRAPHIC LOG
0
1.52
3.05
4.57
7.62
10.06
13.41
14.01
16.46
16.97
20.11
21.97
22.76
15.39
cutting C1
cuttings C2
cuttings C3
1
2
3
4
5
6
7
8
9
10
11
Mn
Mn
Mn-Fe
Fe
Unconsolidated light gray (N7) medium grned sand.
N7
5YR7/2
10YR7/4
5YR5/6
(10YR8/2)
5YR5/6
N8
5YR5/6
5YR5/6
N8
5YR5/6
5YR5/6
10YR8/2
5YR4/4
10YR7/4
5YR5/6
(5Y6/1)
5YR5/6
10YR6/6
10YR8/2
10YR6/6
10YR8/2
N9-N8
BRIDGEWATER
"MARINE" SAND



Unconsolidated light gray (N7) medium grained sand.
N7

5YR7/2

10YR 7/4

5YR5/6
(10YR8/2)
5YR5/6
N9
5YR5/6
5YR5/6
N8
5YR5/6
5YR5/6

This material resembles Parilla Sand with horizons of clay accumulation and soft Fe mottling as found in Hindmarsh Clay. Indicates Parilla as a source for the E. Mottling is interesting. Could be ... as lower than Molineaux.

10YR8/2

5YR4/4
10YR7/4

5YR5/6
(5Y6/1)
5YR5/6

10YR6/6
10YR8/2

Pale yellow quartz sand of Bridgewater Fm. with some calcareous cement in sandstone interbeds.

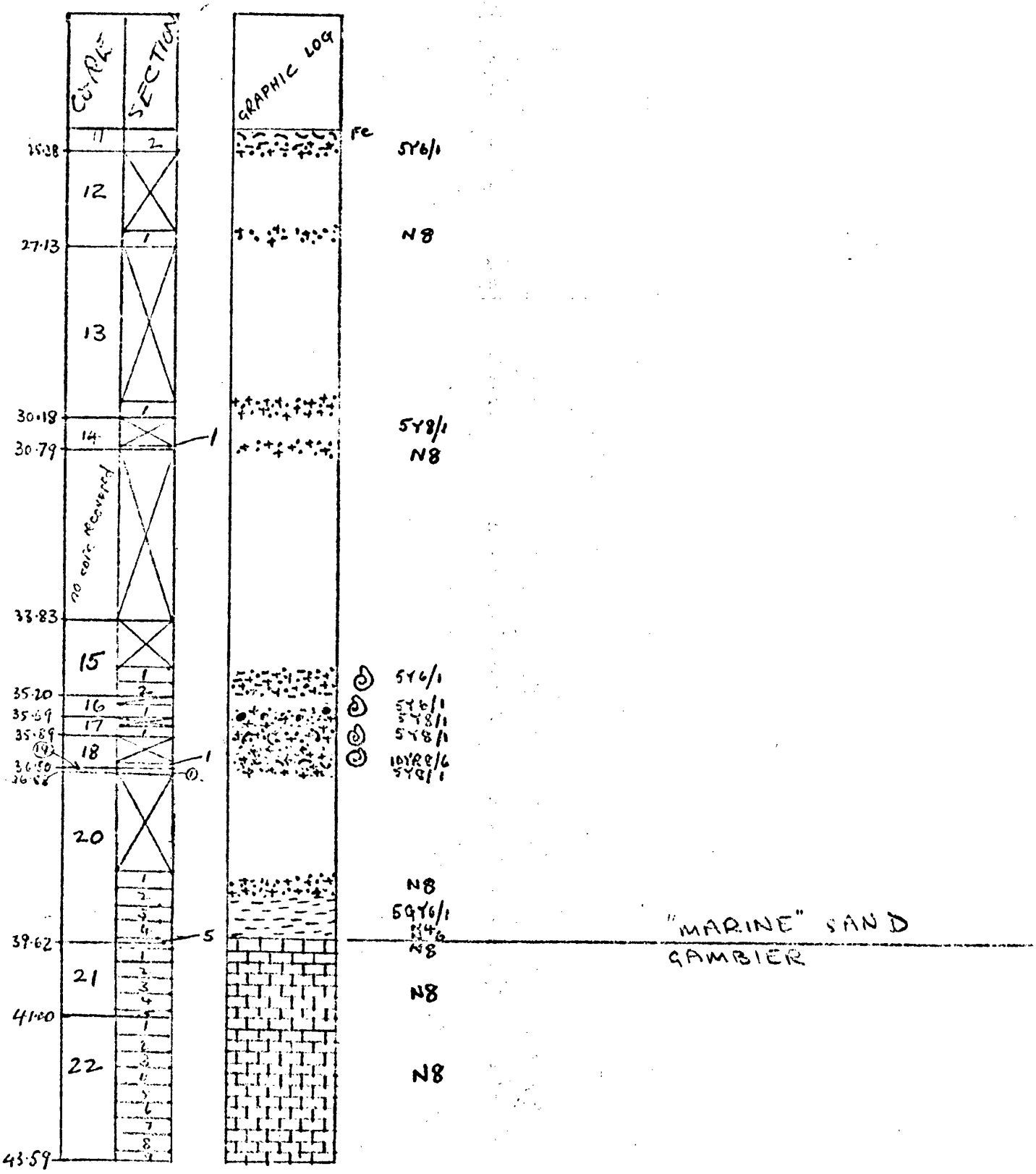
10YR6/6
10YR8/2

Can't see any real difference between S.S. of 10(1) and 9(1).

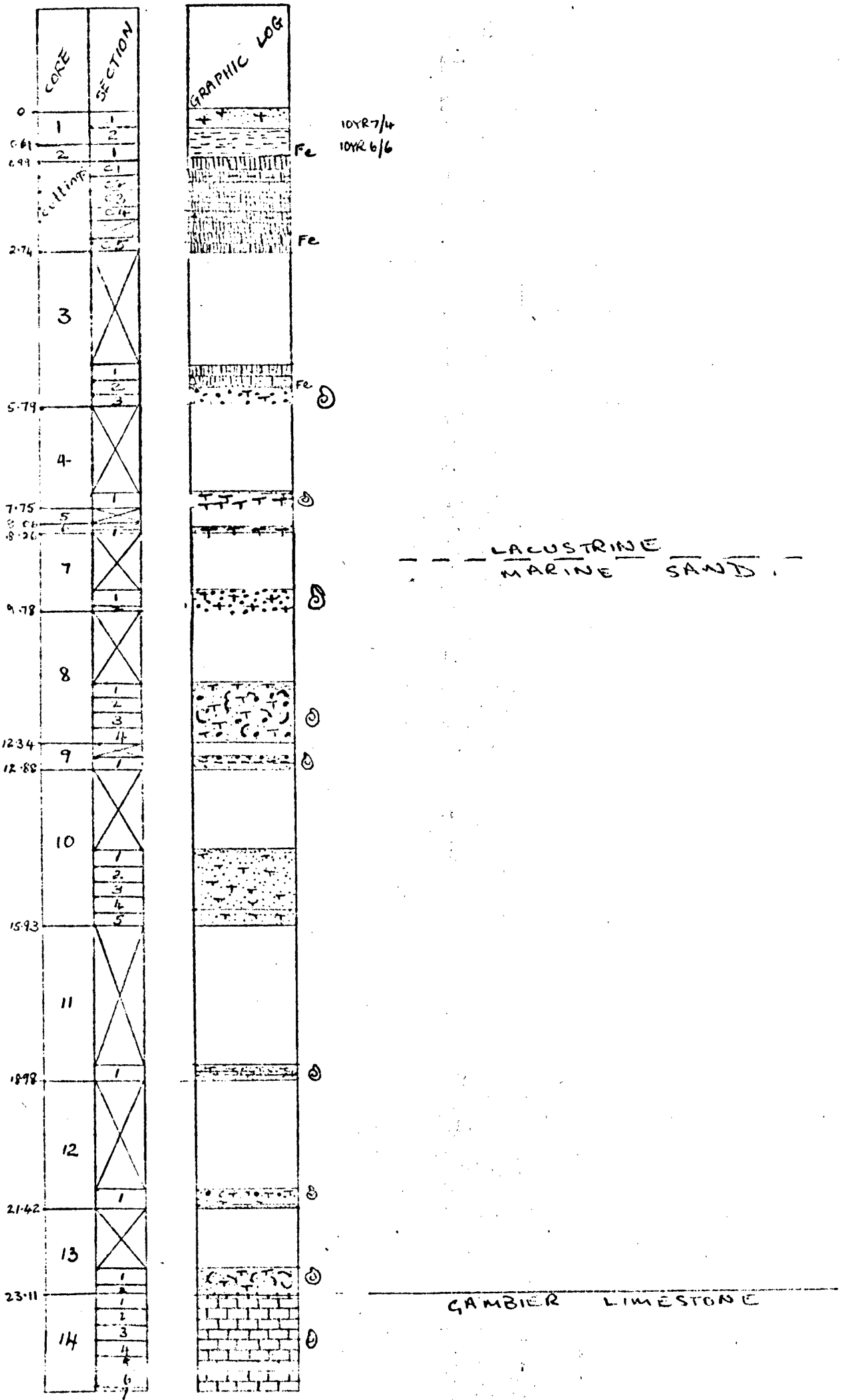
BRIDGEWATER

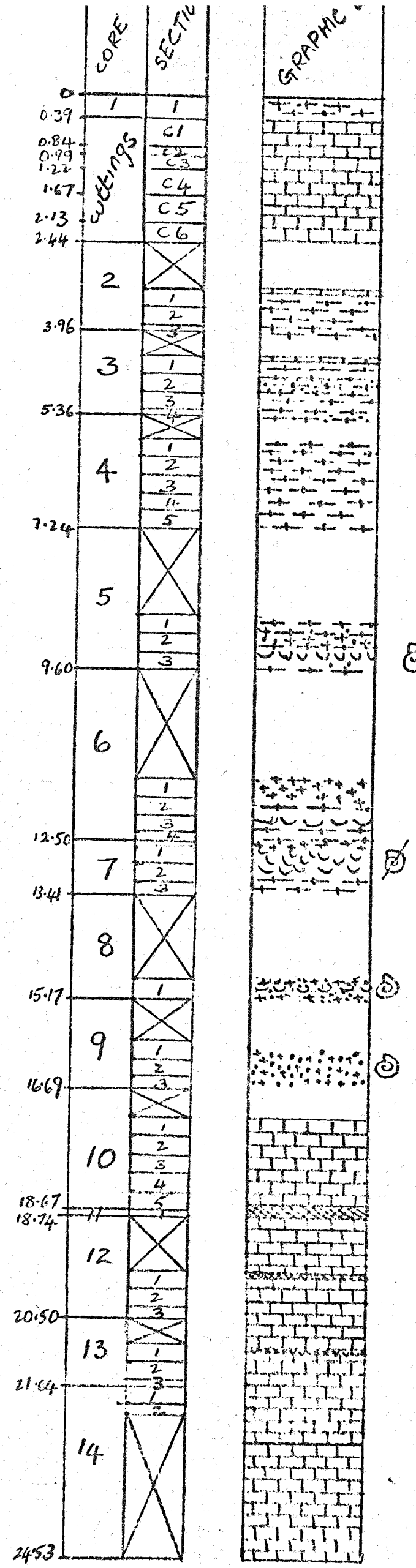
MARINE SAND

N9-N8


CORE
SECTION
GRAPHIC LOG
Fe
5Y6/1
N8
5Y8/1
N8
5Y6/1
5Y6/1
5Y8/1
5Y8/1
10YR6/6
5YR/1
N8
5GY6/1
N4
N8
N8
N8
"MARINE" SAND
GAMBIER
no core recovered
26.38
27.13
30.18
30.79
33.83
35.20
35.69
35.89
36.50
36.62
39.62
41.00
43.59

PENOLA 19

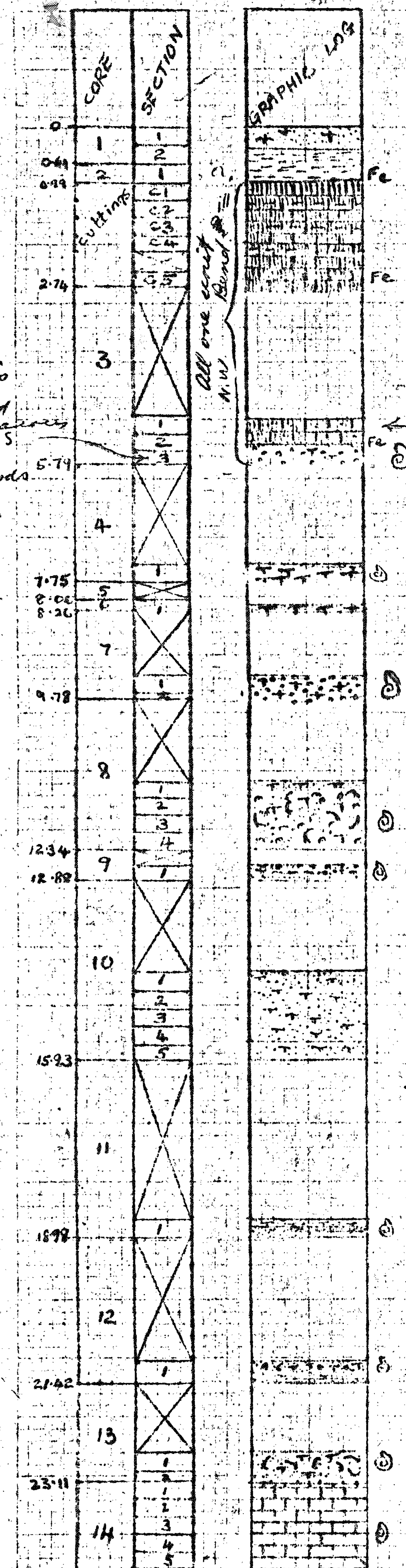

CORE
SECTION
GRAPHIC LOG
0
0·61
0·99
2·74
5·79
7·75
8·20
9·78
12·34
12·88
15·93
18·98
21·42
23·11
1
2
3
4
5
6
7
8
9
10
11
12
13
14
10YR 7/4
10YR 6/6
Fe
Fe
Fe
LACUSTRINE
MARINE SAND
GAMBIER LIMESTONE



"LACUSTRINE" CLAY

"MARINE" SAND

GAMBIER LIMESTONE



3(3) is a hard calcareous S.S with ?gastropods

10YR 7/4
10YR 6/6
C1 effervesces. Could be Ripon (because of hardness), but no push soil in sequence.

— C5 Looks like cuttings from Kanawinka Surface, but apatial relations suggest otherwise.

3(1) looks like Ripon Surface material, but no angular clasts & originally a silty quartz sand. Only slightly calcareous. & the red and yellow mottling at top of 3(1) suggests Kanawinka, particularly as it is so hard.

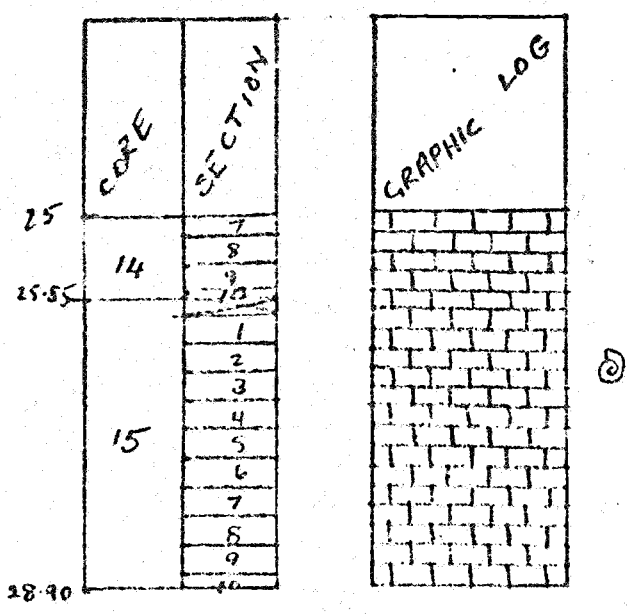
Is this lacustrine? or marine! Very hard ls thin to laminar bedded-like Wentworth in Glenelg River.

— — — LACUSTRINE
MARINE SAND

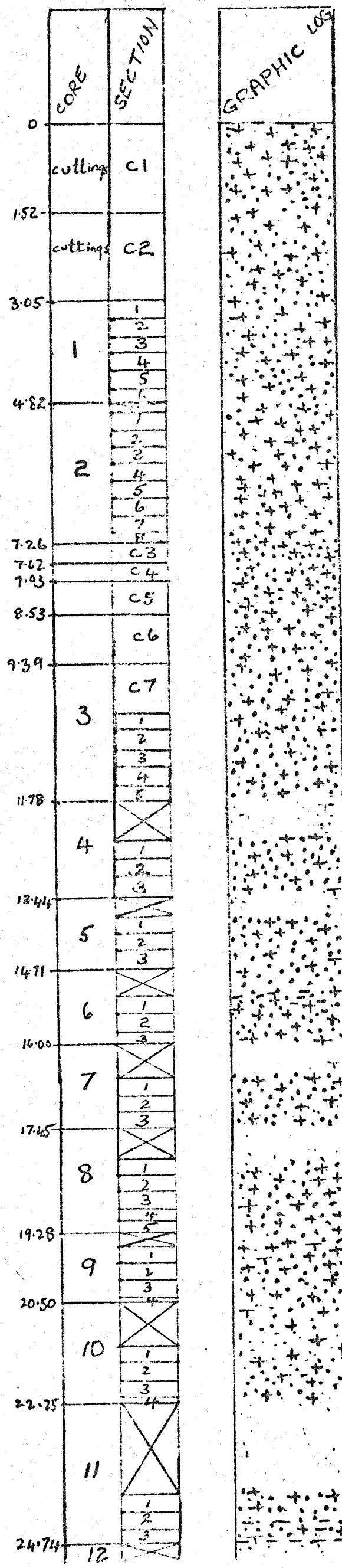
This looks like 3(3) above

GAMBIER LIMESTONE

PENOLA 198 (continued)



PENOLA 20


CORE
SECTION
GRAPHIC LOG
0
cuttings
C1
1.52
cuttings
C2
3.05
1
1
2
3
4
5
6
4.82
2
1
2
3
4
5
6
7
8
7.26
C3
7.62
C4
7.93
C5
8.53
C6
9.39
3
C7
1
2
3
4
5
11.78
4
1
2
3
12.44
5
1
2
3
14.71
6
1
2
3
16.00
7
1
2
3
17.45
8
1
2
3
4
5
19.28
9
1
2
3
4
20.50
10
1
2
3
4
22.25
11
1
2
3
24.74
12
10YR7/4
10YR6/6
10YR7/4
10YR7/4
10YR6/4
10YR7/4
10YR6/6
5YR5/6
10YR7/4
Fe-Ma
Fe
10YR7/4
10YR6/6
10YR6/6
10YR7/4
10YR8/2
10YR6/6
10YR6/4
10YR8/2
? BRIDGEWATER.
"MARINE" SAND.

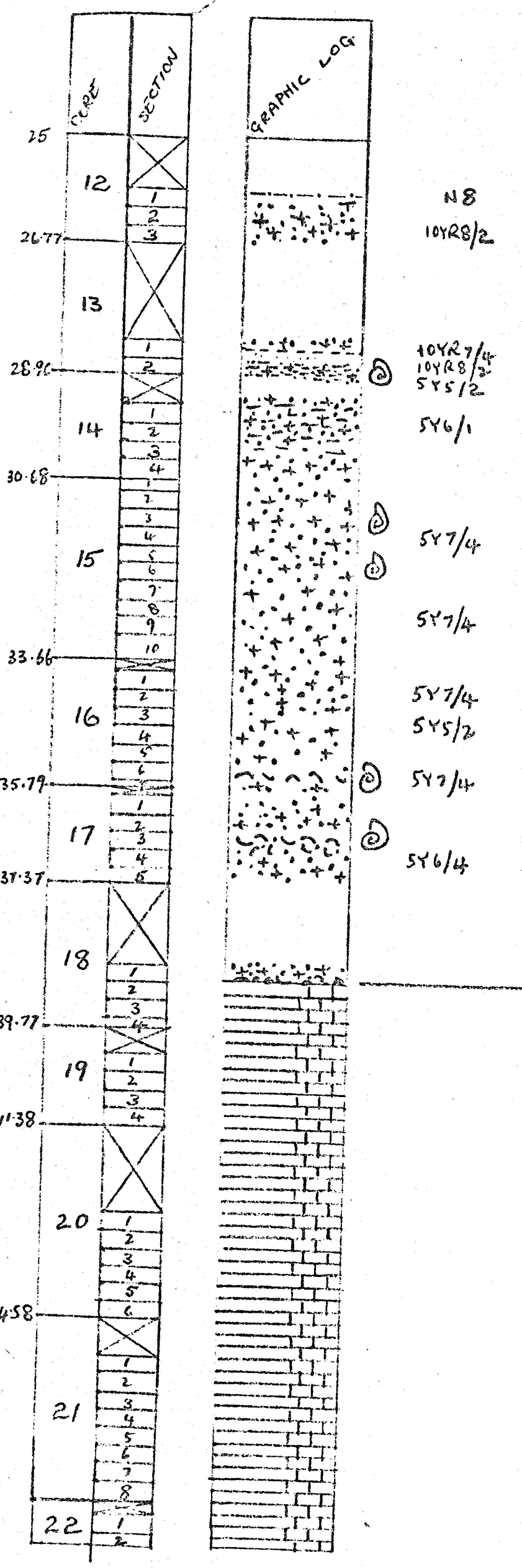
PENOLA 20A,

CORE	SECTION	depth	GRAPHIC LOG	
		0		
cutting	C1			
		1.52		
cutting	C2			
		3.05		
1	1–6			10YR7/4
		4.88		
2	1–8			10YR 6/6
	C3	7.26		
	C4	7.62		
	C5	7.93		
	C6	9.53		10YR7/4
	C7	9.39		
3	1–5			10YR7/4
		11.78		
4	1–3			10YR7/4
		12.44		
5	1–3			10YR7/4 10YR 6/6
		14.71		
6	1–3			5YR5/6 10YR 7/4
		16.00		
7	1–3			Fe-Mn 10YR7/4 Fe 10YR6/6
		17.45		
8	1–5			10YR6/6 10YR7/4 10YR 8/2
		19.28		
9	1–3			10YR6/6
		20.50		
10	1–4			10YR6/4
		22.25		
11	1–3			10YR8/2
12		24.74		

Note that this bore greatk into ~~calcarenite~~ quartz sandstone with calcareous cement at shallow depth in contrast to Penola No 16 which has at least 3 m of clayey sand with red and yellow mottles above it

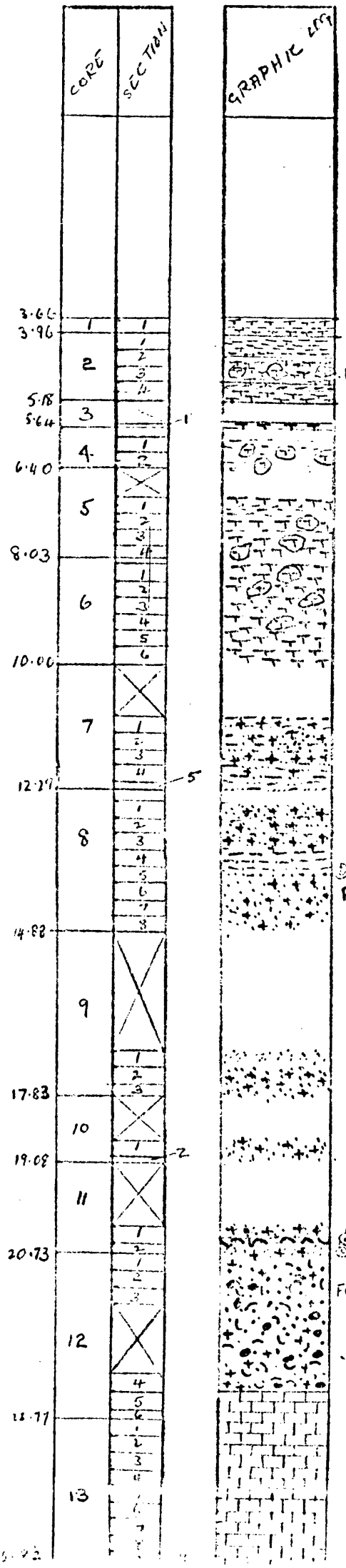
— — ? — — ? BRIDGEWATER "MARINE" SAND.

PENCLA 20B (continued)



NARACOORTE
PENOLA 21

052



CORE 1 v lt. grey (N8) calcilutite with a thin band of lt olive gray (5Y6/1) non-calc clay at 18 cm. Scattered fn grnd sub-angular qtz gns

CORE 2. 0-28 lt olive gray (5Y6/1) sl calc clay. Scattered qtz gns
28-31 very pale orange (10YR8/2) mod calc clay
31-90 v lt gray (N8) calcilutite; generally soft, but with patches and ?clasts of cemented calcilutite
90-100 lt olive gray sl calc clay with scattered vfn gned sub-angular qtz gns.
100-122 v lt gray (N8) with minor dk yellowish brown (10YR 6/6) staining - calcilutite

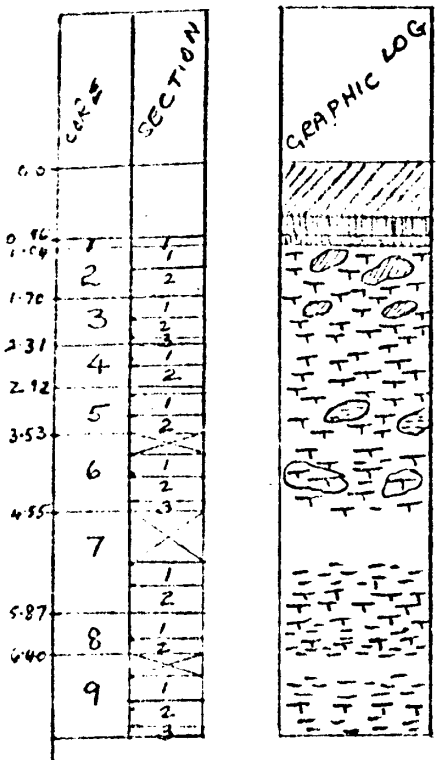
CORE 3

"LACUSTRINE" CLAY

"MARINE" SAND

GAMBIER LIMESTONE

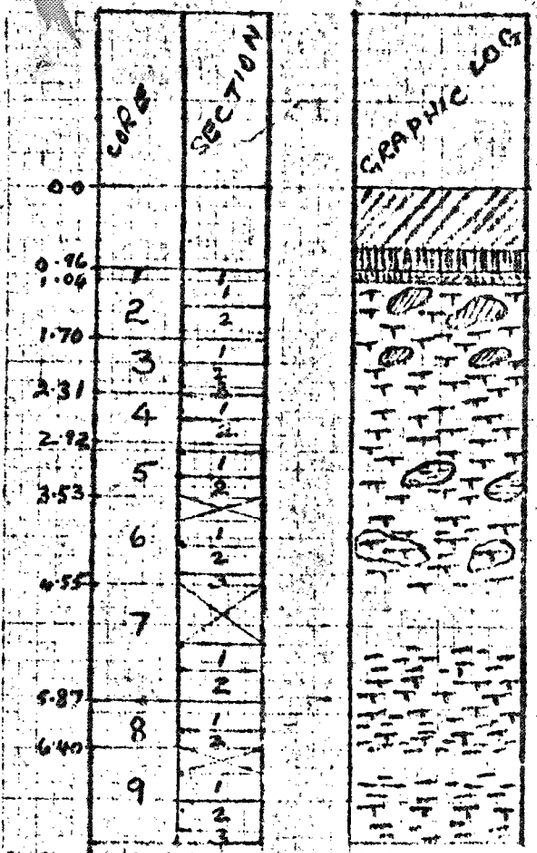
NARA COORTE 21A



N1
5Y8/1

"LACUSTRINE" CLAY

NARA COORTE 21A



Where is this calcrete?

"LACUSTRINE" CLAY

KEY.

Quartzose sand/sandstone.

Clay/Claystone.

Calcarenite.

Calcilutite.

Calcrete.

Soil

Chert.

Quartz granules & pebbles.

Calcrete pebbles.

Shell grit.

Lignitic clays.

Lignite.

Gambier & Naracoorte Limestones and equivalents.

Granite, microgranite.

Fossils

Fossil fragments.

Dolomite rhombs

Cross bedding

Wavy lamination

Root fragments, plant fibres

Heavy minerals, opaque grains (observed under binocular microscope)

Mica

Fe Iron staining

Mn Manganese staining

P Pyrite

Gl Glauconite.

Ferruginized surface.

SEDIMENT COMPONENTS:

Framework (Arenite)

Matrix, Cement (Lutite)

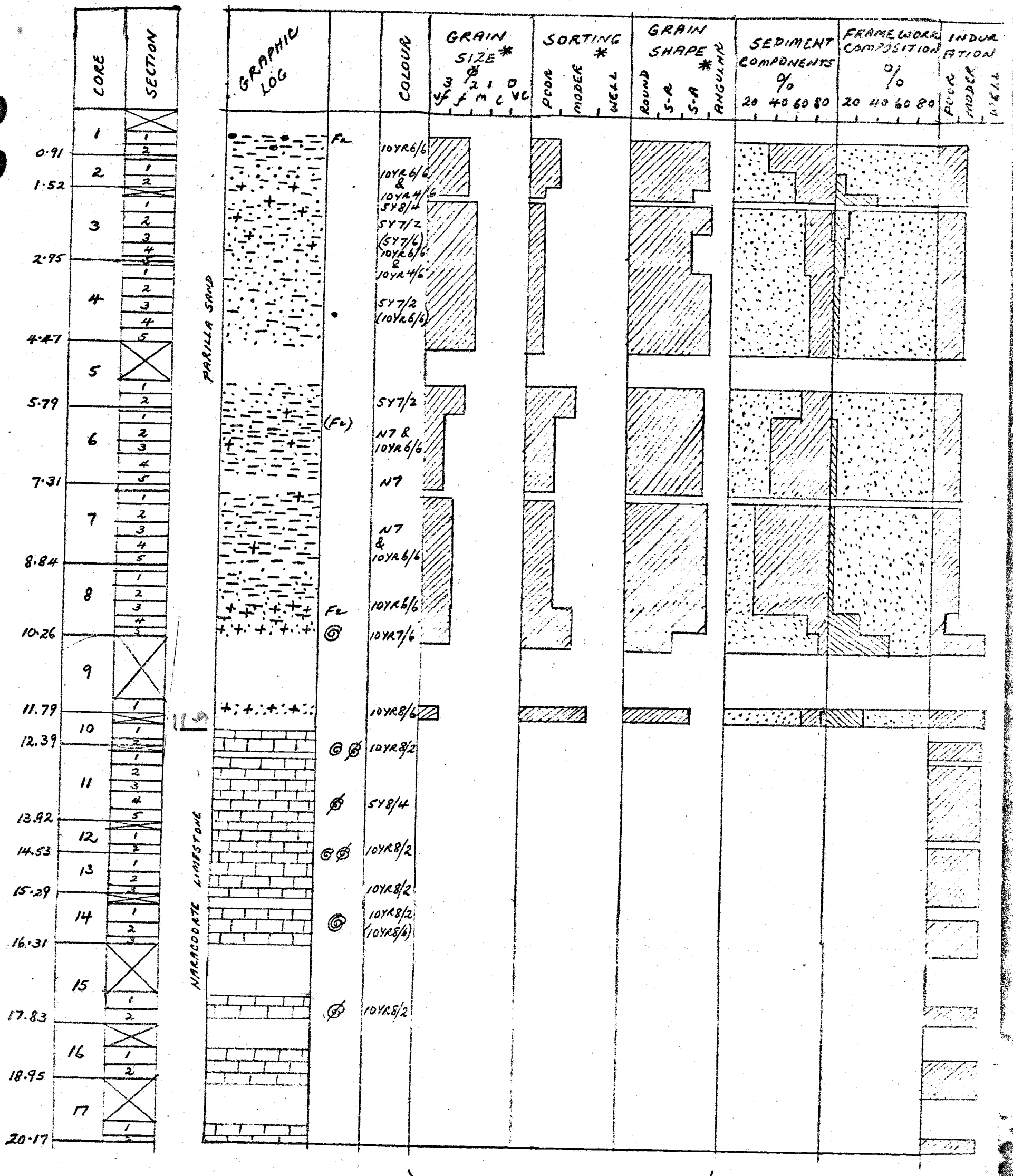
Porosity

FRAMEWORK COMPOSITION

INDURATION:

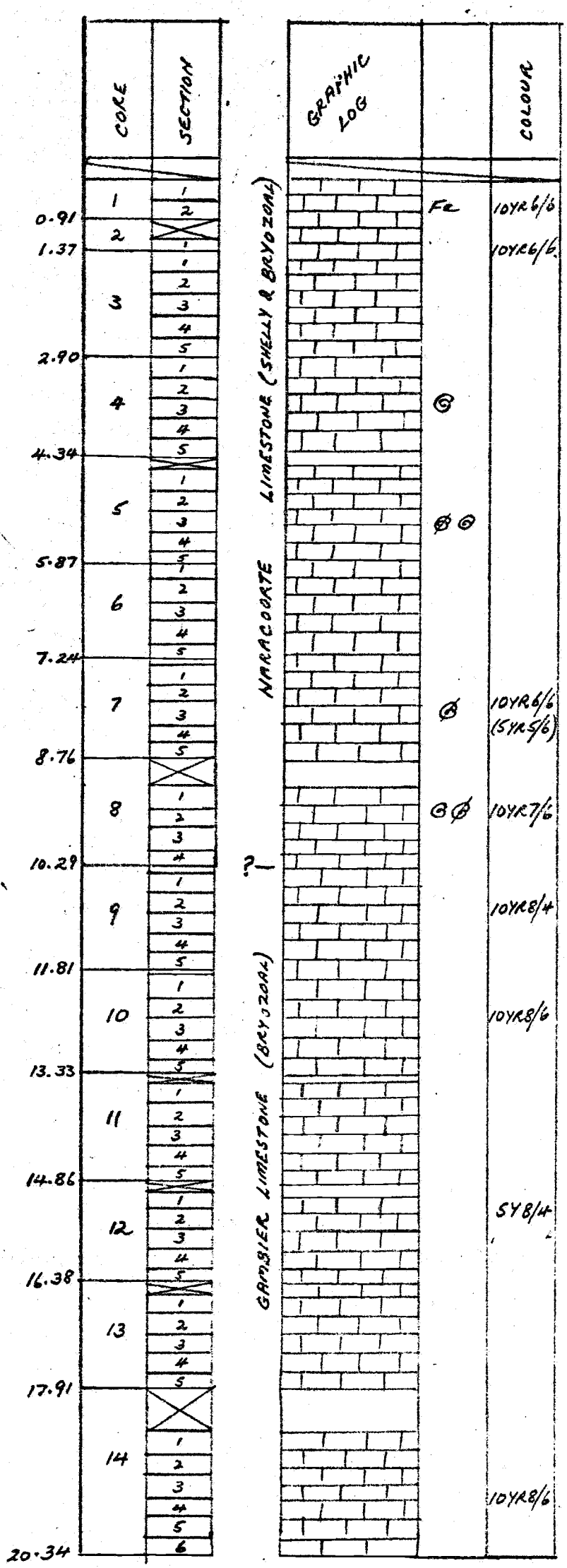
ALT Alternating indurated & non-indurated banks.

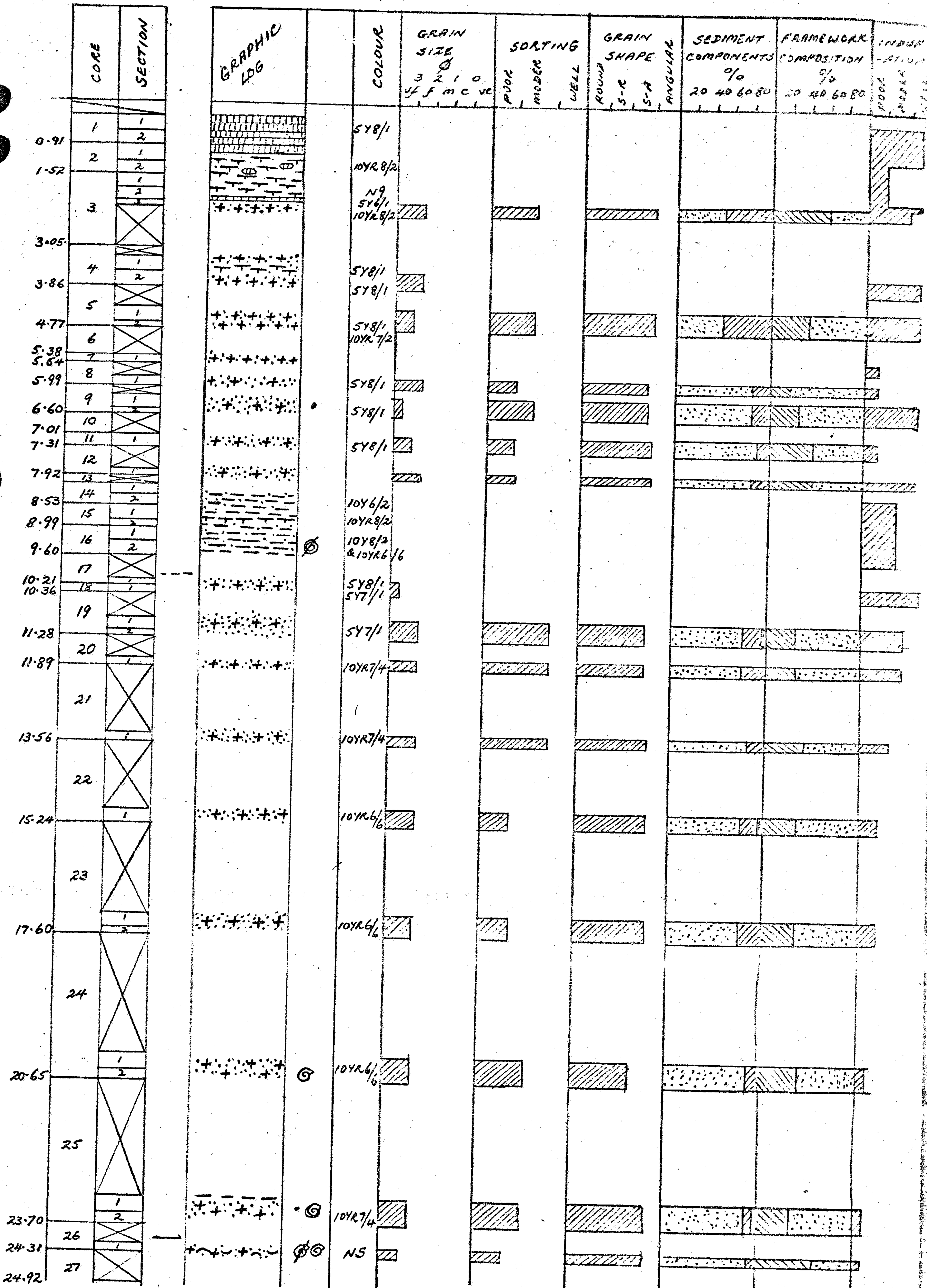
NARACOORTE #36



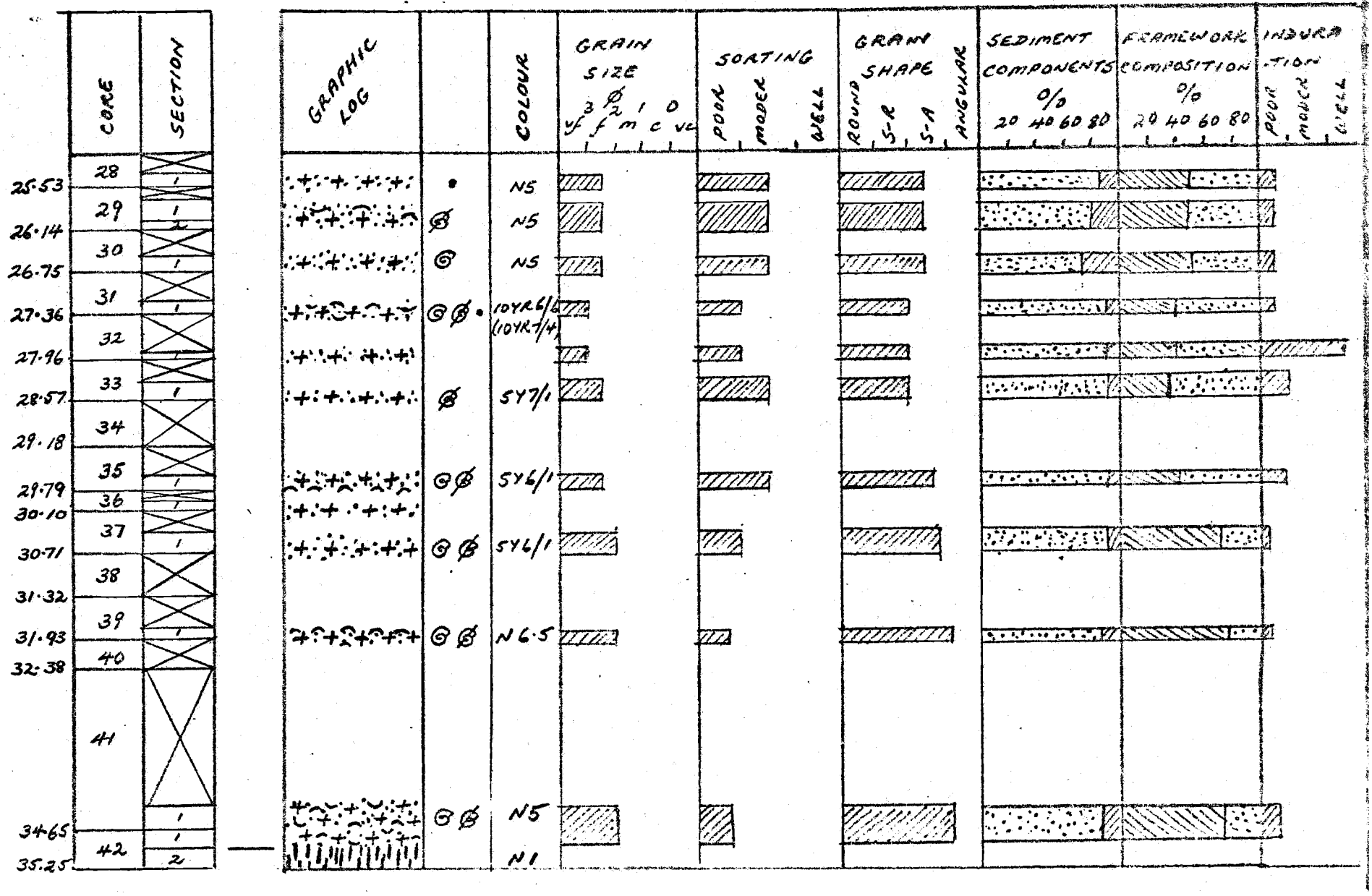
* N.B REFERS TO ARENITE FRACTION ONLY IN SANDY CLAYS & CLAYEY SANDS

NARACOORTE #37

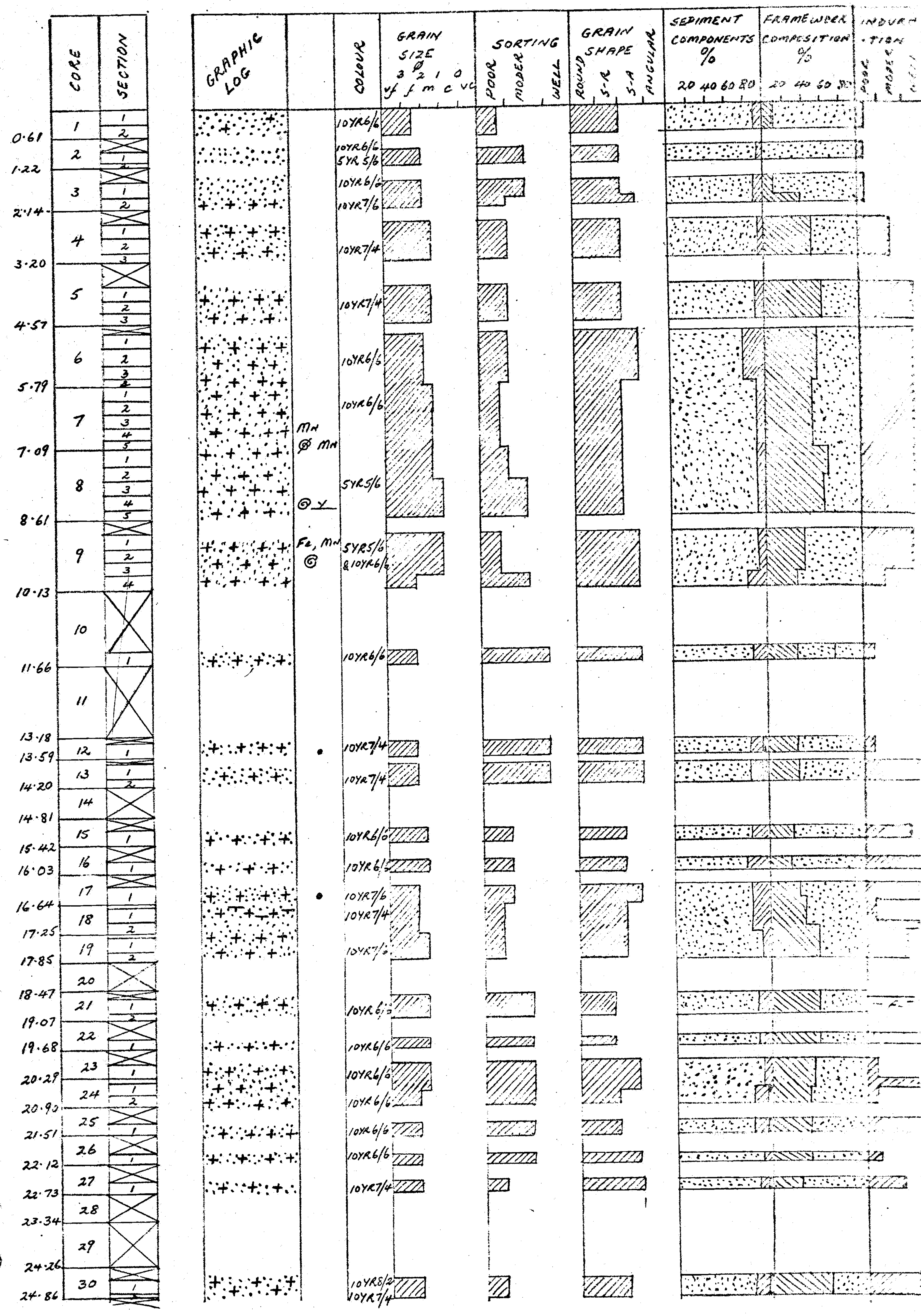



CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDUR-ATION
POOR
MODER
0·91
1·52
3·05
3·86
4·77
5·38
5·64
5·99
6·60
7·01
7·31
7·92
8·53
8·99
9·60
10·21
10·36
11·28
11·89
13·56
15·24
17·60
20·65
23·70
24·31
24·92
5Y8/1
10YR8/2
N9
5Y6/1
10YR8/2
5Y8/1
5Y8/1
5Y8/1
10YR7/2
5Y8/1
5Y8/1
5Y8/1
10Y6/2
10YR8/2
10Y8/2
& 10YR6/6
5Y8/1
5Y7/1
5Y7/1
10YR7/4
10YR7/4
10YR6/6
10YR6/6
10YR6/6
10YR7/4
N5

NARACOORTE #38A (CONT.)



NARACOORTE #39



NARACOORTE #39A (CONT.)

Depth (base)	Core	Section	Colour
25·48	31	1	10YR 6/6
26·09	32	1, 2	10YR 7/4
26·69	33	1	10YR 6/6
27·30	34	1	10YR 6/6
27·91	35		
28·52	36	1	10YR 6/6 N6
29·26	37	1	10YR 6/6 N7
29·87	38	1	N7 & 10YR 6/6
30·48	39	1	N6
31·09	40		
31·70	41	1	5Y 6/1
32·31	42	1	5Y 6/1
32·92	43	1	5Y 5/2
33·53	44	1	N6 & 10YR 6/6
34·14	45		
34·75	46	1	N6·5
35·36	47	1	N6·5 & 10YR 7/4
35·97	48		
36·58	49		
37·19	50	1, 2	N5
37·79	51	1	N6 5Y 3/1
38·45	52		
39·01	53	1	N3
39·62	54	1, 2	5Y 2/1
40·23	55	1, 2	
40·79	56	1	5Y 4/1
41·25	57	1	
41·55	58	1	5Y 2/1
42·16	59	1	
42·77	60		
43·38	61	1, 2	5Y 2/1

Column headings: CORE · SECTION · GRAPHIC LOG · COLOUR · GRAIN SIZE Ø (3 2 1 0; vf f m c vc) · SORTING (POOR, MODER, WELL) · GRAIN SHAPE (ROUND, S-R, S-A, ANGULAR) · SEDIMENT COMPONENTS (20 40 60 80) · FRAMEWORK COMPOSITION (20 40 60 80) · INDURATION (POOR, MODER…)

NARACOORTE # 40

CORE	SECTION		GRAPHIC LOG	COLOUR	GRAIN SIZE * Ø (vf f m c vc)	SORTING * (POOR MODER. WELL)	GRAIN SHAPE * (ROUND S-R S-A ANGULAR)	SEDIMENT COMPONENTS % (20 40 60 80)	FRAME WORK (ARENITE) COMPOSITION % (20 40 60 80)	INDURATION (POOR MODER. C'ELL)
0·30										
	1	1		5Y7/2 & 5Y7/6						
0·91		2								
	2	1								
1·37		2		5Y7/2 & 10YR6/6						
	3	1								
1·98		2								
	4	1		5Y7/2 (10YR6/6)						
2·59		2								
	5	1								
3·03		2								
	6	1		5Y8/1 & N9						
3·66		2								
	7	1		5Y7/2 (5G6/1)						
4·27		2								
	8	1		5Y7/2 (5G6/1) N9						
4·88		2								
	9									
5·49		1								
	10	1		5Y7/2 & 5G6/1 (10YR6/6)						
6·10		2								
	11	1								
6·71		2								
	12			N9 & 5G6/1						
		1		5G6/1 (10YR6/6)						
8·00				5B7/1 & N9						
	13									
8·61		1								
	14			5Y7/2						
9·22		1								
9·68	15			5Y7/2						
	16	1		10YR6/6 & 5Y6/1						
10·29		2								
	17	1								
		2								
10·97		3								
	18	1		5B5/1 N9						
11·58		2								
	19	1								
12·19				5Y7/2 & 10YR6/6						
	20	1								
12·80		2		10YR6/6						
	21	1		10YR7/4 & 10YR8/2						
13·41		2								
	22									
14·02										
	23	1		10YR6/6						
14·63		2								
	24	1		10YR8/2 10YR6/6						
15·24										
	25	1		10YR6/6						
15·85										
	26	1		10YR7/4						
16·46		2								
	27	1								
17·07										
	28			10YR6/6						
17·68										
	29	1		10YR7/4						
18·29										
	30	1								
18·67										
	31	1								
19·28										
	32	1		10YR8/6						
19·89										
	33	1		10YR6/6						
20·42										
20·65	34	1								
	35	1		10YR8/6 & 10YR 7/6						
21·26										
	36	1								
21·87										
	37	1								
22·48										
	38	1		10YR7/4						
		2								
23·24										
	39	1		10YR8/6						
		2								
24·15										
	40									
25·07		1		10YR8/6						

*N.B. REFERS TO ARENITE FRACTION ONLY IN SANDY CLAYS.

NARACOORTE # 41

CUTTINGS

CORE	SECTION	
	C1	1.52
	C2	3.05
	C3	4.57
	C4	6.01
	C5	7.62
	C6	9.14
	C7	10.67
	C8	12.19
	C9	13.72
	C10	15.24
	C11	16.76
	C12	18.29
	C13	19.81
	C14	21.34
	C15	22.86
	C16	24.38
	C17	

GRAPHIC LOG

COLOUR

GRAIN SIZE ϕ vf f m c vc

SORTING POOR MODER WELL

GRAIN SHAPE ROUND S-R S-A ANGULAR

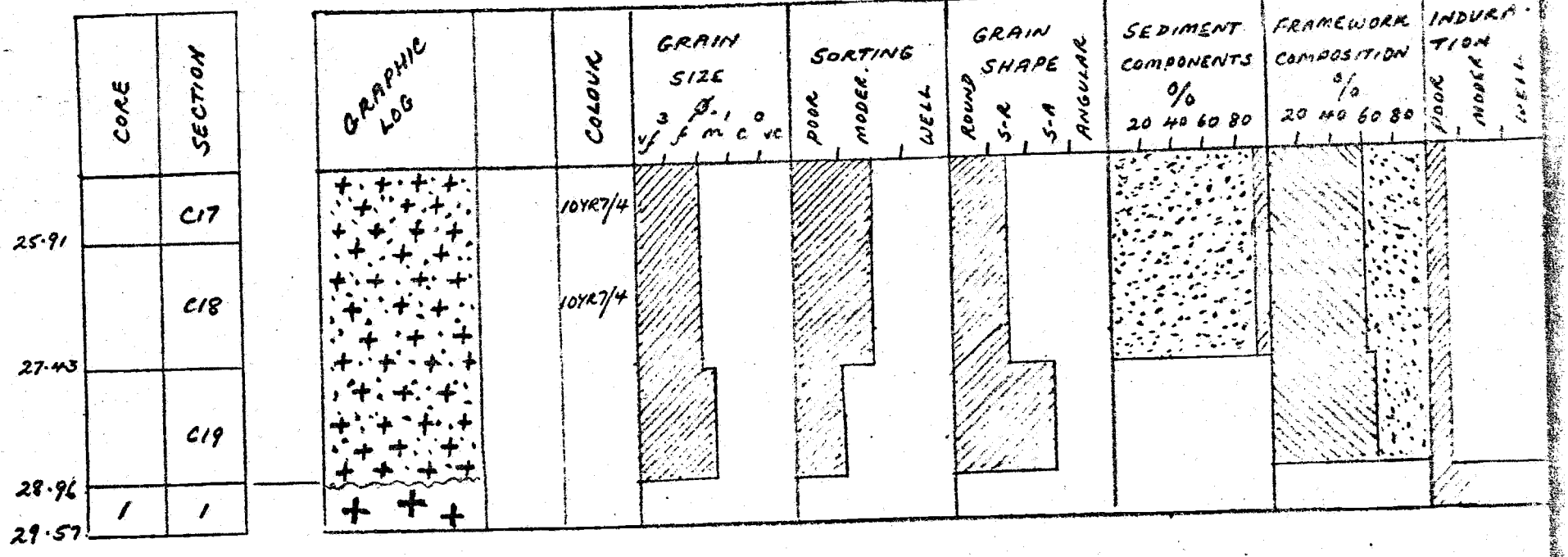
SEDIMENT COMPONENTS % 20 40 60 80

FRAMEWORK COMPOSITION % 20 40 60 80

INTERGR... VOIDS POOR MODER...

N9
5YR6/4
5YR6/4
10YR7/4
10YR7/4
10YR7/4
10YR7/4
10YR7/4
10YR7/4
10YR6/6
10YR6/6
10YR7/4
10YR7/4
10YR7/4

NARACOORTE #41A(CONT.)



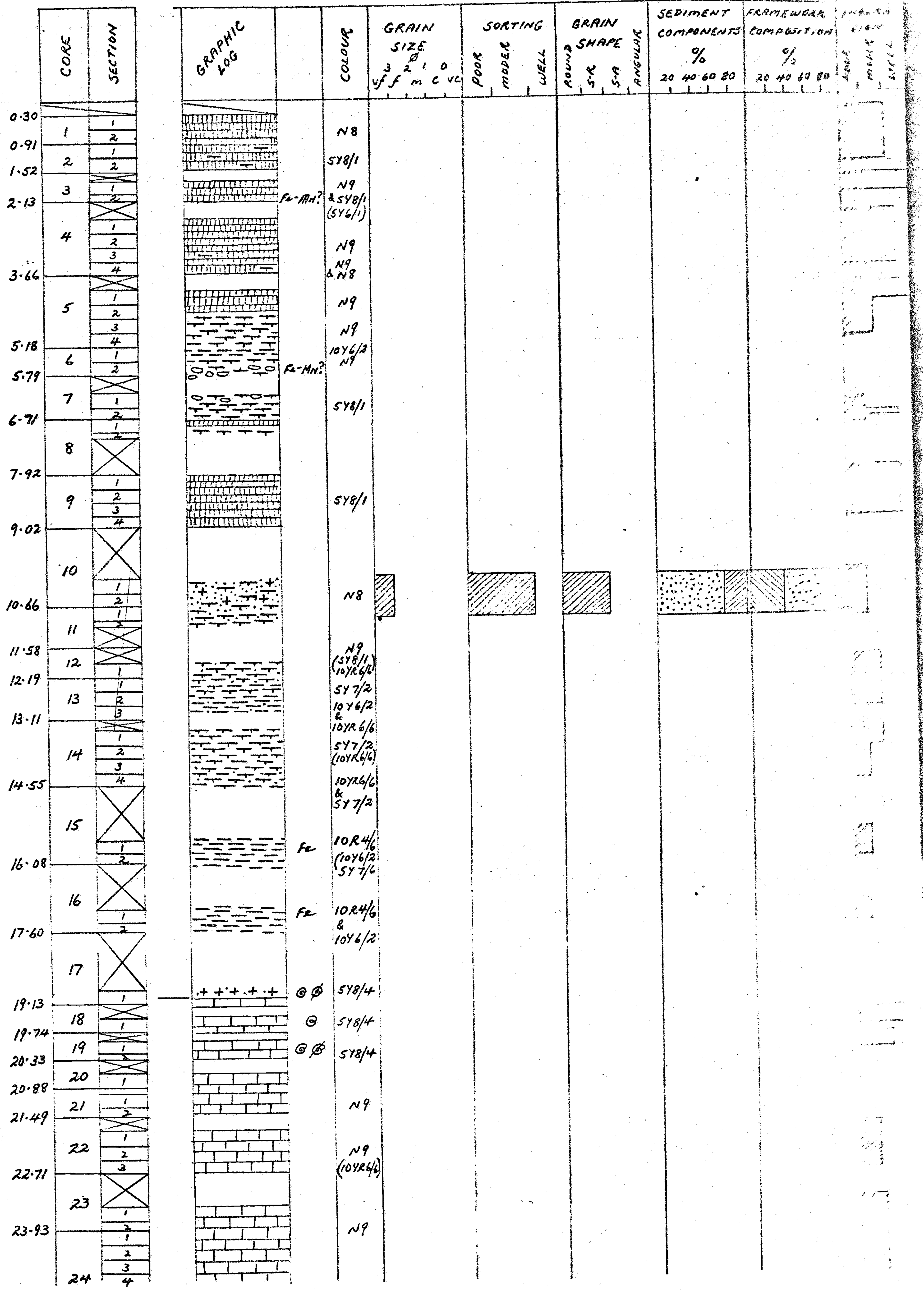
NARACOORTE # 42

CORE	SECTION	DEPTH	GRAPHIC LOG	COLOUR	GRAIN SIZE (ϕ 3 2 1 0; vf f m c vc)	SORTING (POOR MODER. WELL)	GRAIN SHAPE (ROUND S-R S-A ANGULAR)	SEDIMENT COMPONENTS % (20 40 60 80)	FRAMEWORK COMPOSITION (20 40 60 80)	INDURATION (POOR MODER. WELL)
		0.30		N9						
1	1			10YR8/6						
	2	0.91								
2		1.52								
3	1			10YR7/6						
	2	2.13								
4	1			10YR7/4						
	2	2.74								
5	1			5YR7/6						
	2	3.35								
6	1			10YR7/6						
	2		- MN							
	3									
	4									
	5	4.70								
7	1			10YR6/6						
	2									
	3									
	4									
	5									
	6			10YR7/4						
	7									
	8									
	9		X							
	10	7.75								
8	1			10YR7/4						
	2		X							
	3									
	4									
	5			10YR6/6						
	6									
	7			10YR7/4						
	8									
		10.79								
9	1			5YR8/4 & 5YR6/4						
	2									
	3	12.32								
10	1			10YR8/2 (5YR6/4)						
	2	13.11								
11	1			5YR5/6 & N9						
	2									
	3									
	4									
	5	14.63								
12	1			5YR5/6						
	2									
	3	16.15		10YR6/6						
13	1			5YR5/6 10YR8/6 & N9						
	2									
	3									
	4		◎							
	5	17.68								
14	1			10YR6/6						
	2		◎							
	3									
	4		X							
	5	19.20								
15	1			10YR6/6						
	2									
	3									
	4	20.73								
16	1			10YR6/6						
	2									
	3									
	4									
	5	22.10								
17	1			10YR6/6						
	2									
	3									
	4									
	5	23.62								
18	1		◎ ◎	10YR6/6						
	2									
	3									
	4									

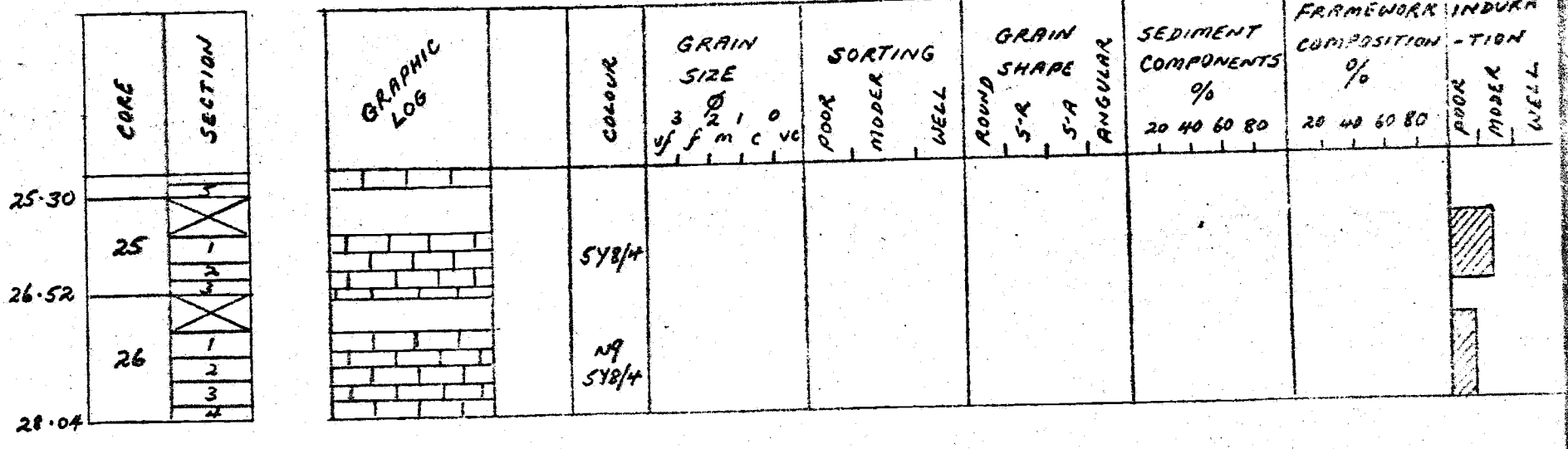
NARACOORTE # 42A (CONT.)

CORE	SECTION		GRAPHIC LOG		COLOUR	GRAIN SIZE ø 3 2 1 0 vf f m c vc	SORTING POOR MODER. WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDURATION POOR MODER. WELL
		25·17									
19	1				10YR7/6						
	2										
	3										
	4				10YR7/4						
	5	26·67									
20	1				5Y 7/2						
	2										
	3										
	4										
	5	28·19									
21	1										
	2										
	3				5Y8/4						
	4										
	5	29·72									
22	X										
	1										
	2										
	3				5Y8/4						
	4										
	5										
	6	32·77									
23	1										
	2										
	3				N9 & 5Y8/4						
	4										
	5	34·29									
24	1										
	2										
	3										
	4										
	5	35·81									
25	1										
	2										
	3				N9 & 5Y8/4						
	4										
	5	37·34									
26	1										
	2										
	3										
	4										
	5	38·86									

NARACOORTE #43



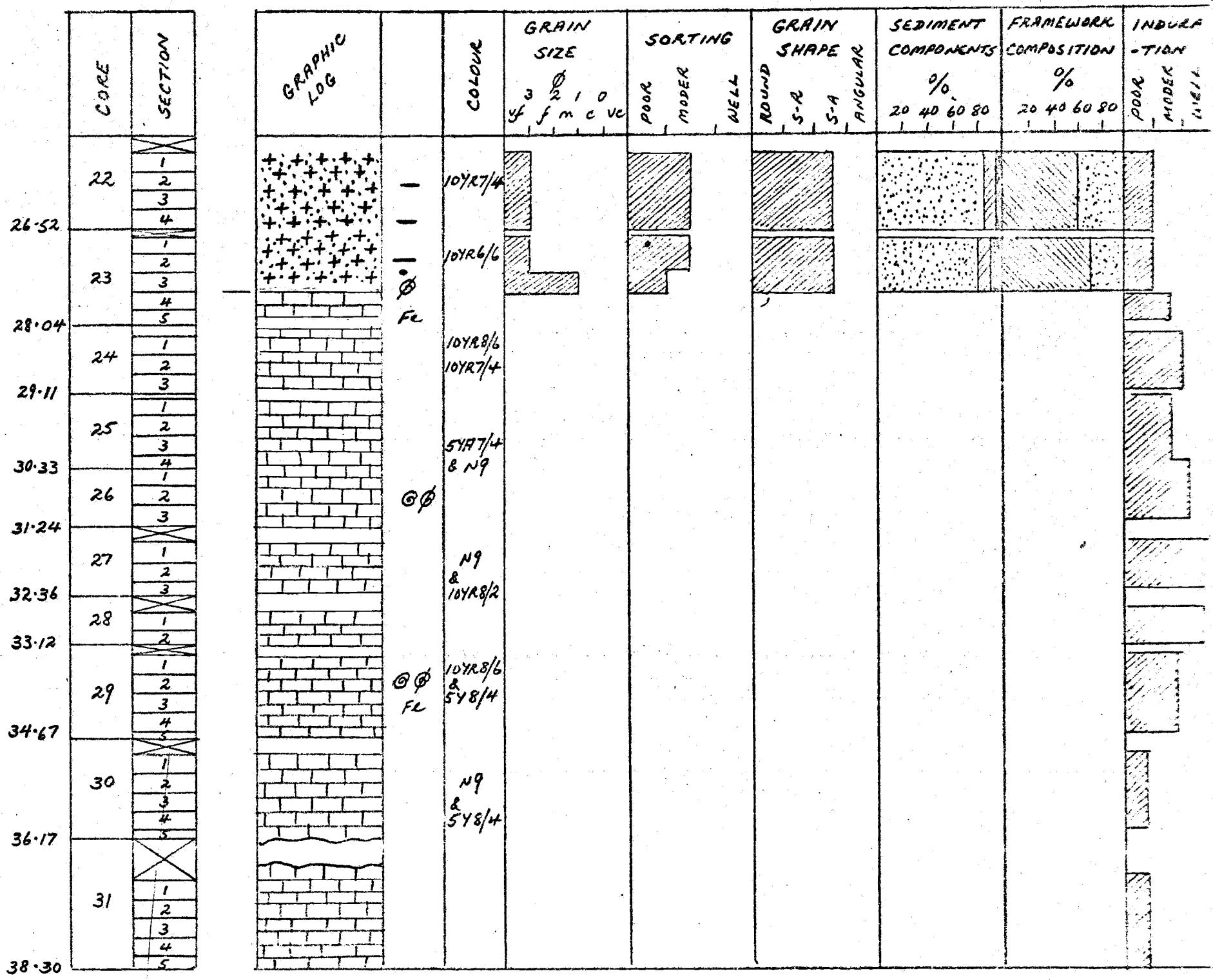
NARACOORTE 43A (CONT)



NARRACOORTE #44

CORE	SECTION		GRAPHIC LOG		COLOUR	GRAIN SIZE ø 3 2 1 0 (vf f m c vc)	SORTING (POOR, MODER., WELL)	GRAIN SHAPE (ROUND, S-R, S-A, ANGULAR)	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDUR-ATION (POOR, MODER.)
		0.30									
1	1	0.91			10YR6/6						
2	1				5YR6/4						
	2	1.52									
3	1				10YR6/6						
	2	2.13									
4	1				10YR6/6						
	2										
	3			K	10YR6/6						
	4	3.66									
5	1			K	10YR6/6						
	2										
	3			K	10YR6/6						
	4										
	5	5.18									
6	1				10YR6/6						
	2										
	3				10YR6/6						
	4			K							
	5	6.71			10YR7/4						
7	1			K	10YR6/4						
	2										
	3				10YR6/6						
	4	7.77		K							
8	1				10YR6/4						
	2										
	3										
	4										
	5	9.30									
9	1			K	10YR6/4						
	2										
	3										
	4	10.82									
10					10YR6/6						
	1										
	2	12.34									
11	1				10YR6/4						
	2			K							
	3				10YR6/4						
	4			K							
	5	13.72									
12	1				10YR6/4						
	2										
	3				10YR6/4						
	4	14.93			10YR6/6						
13	1										
	2										
	3				10YR6/4						
	4				10YR6/6						
	5	16.46									
14	1				10YR6/4						
	2										
	3										
	4	17.98									
15	1				10YR6/4						
	2										
	3	19.51									
16	1				10YR6/6						
	2										
	3										
	4	21.03									
17	1				10YR6/6 & 10YR7/4						
	2	21.54									
18	1				10YR6/6 & 10YR7/4 5Y7/2						
	2	23.06									
19	1	23.22									
20	1	23.57									
21	1				10YR6/6 & 10YR7/6						
	2										
	3										
	4										
	5	25.01									

NARACOORTE # 44A (CONT.)



NORACOORTE #45

0·31	CORE 1	SECTION 1	GRAPHIC LOG		COLOUR N9	GRAIN SIZE ø 3 2 1 0 vf f m c vc	SORTING P MOD WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDURATION POOR MODER WELL
0·91	2	1 2			10YR7/4 & 10YR8/6 10YR7/4						
1·52	3	1 2 3 4 5		Fe	5YR5/6 10YR7/4						
3·05	4	1 2			10YR6/4						
4·57	5	1 2			10YR6/4						
6·10	6	1			10YR6/6						
7·62	7	1			10YR6/6						
9·14	8	1			10YR6/6						
9·75	9	1			10YR6/6						
10·36	10	1			10YR6/4 10YR6/6						ALT
10·97	11	1 2			10YR6/6						
11·58	12	1 2			10YR6/6						
12·19	13	1 2 3 4			10YR6/6						
13·72	14	1 2 3 4 5		ø	10YR6/6						
15·24	15	1 2 3 4 5			5Y8/1 10YR6/6 10YR6/6						
16·76	16	1 2 3 4 5		ø	5Y8/1						
18·29	17	1 2 3 4 5		ø	10YR7/6 10YR6/6 N9 & 5Y8/4						
19·81	18	1 2 3 4 5		ø	5Y8/4						
21·34	19	1 2 3 4 5			N9 & 5Y8/4						
22·86	20	1 2 3 4 5			N9 & 5Y6/4						
24·38		1 2									

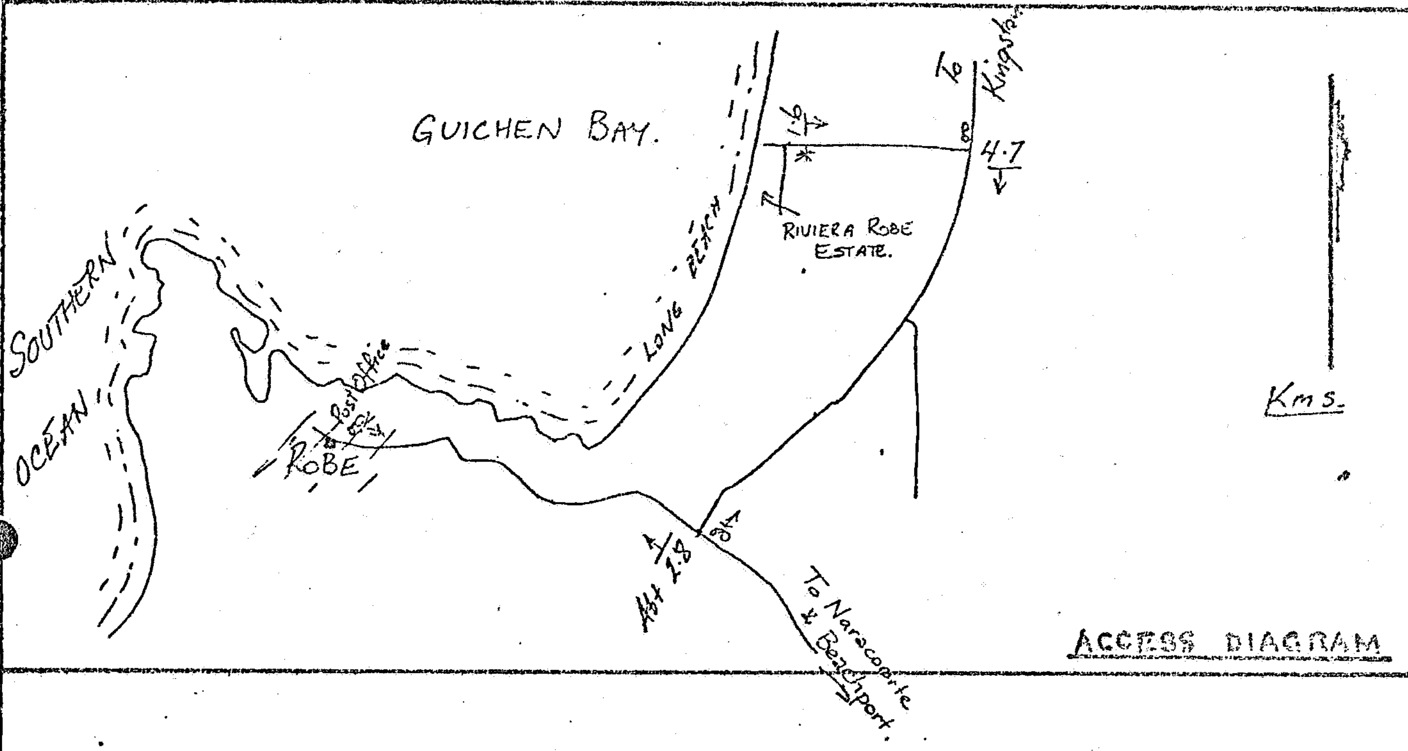
NARACOORTE #45A (CONT.)

CORE	SECTION		GRAPHIC LOG		COLOUR	GRAIN SIZE Ø 3 2 1 0 vf f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDURATION POOR MODER WELL
21	3				N9 & 5Y8/4						
	4										
	5	25.91									
22	1										
	2										
	3				N9						
	4										
	5	27.43									

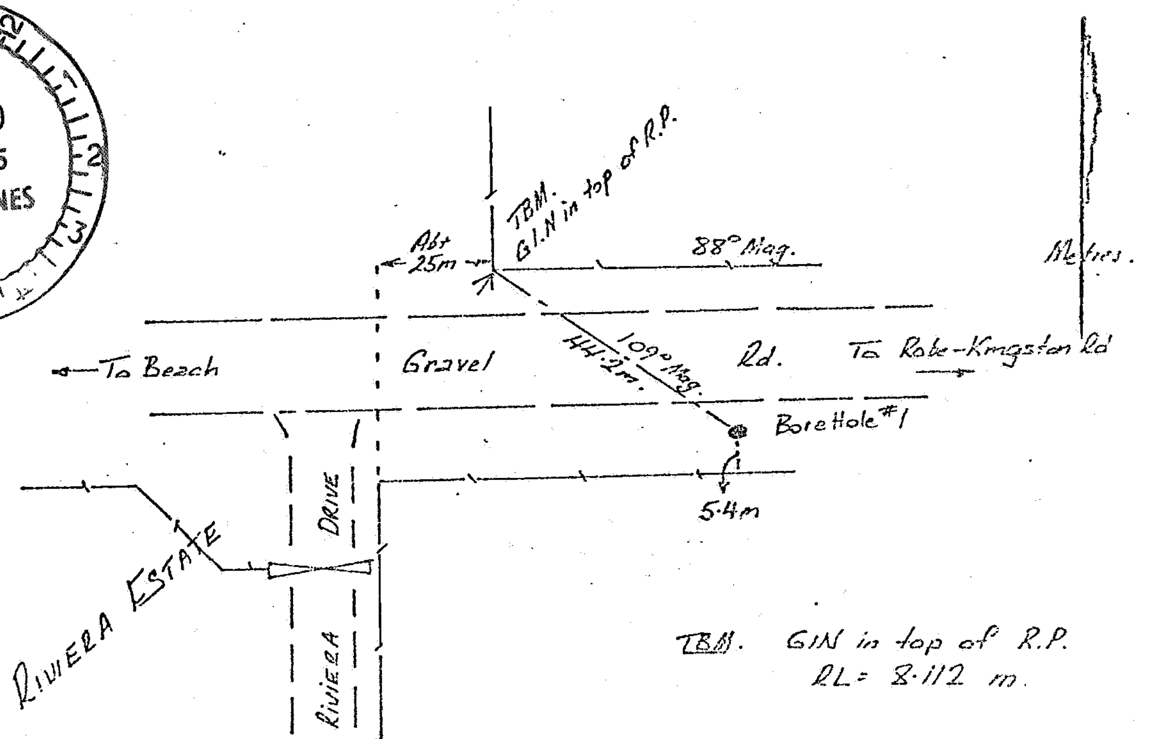
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG 073

PROJECT ROBE - NARACOORTE COASTAL SURVEY   STN. Bore Hole #1



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #1	° ′ ″	° ′ ″	393160 ·	5889420 ·	6 · 35
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·

DATUM OF LEVELS: AHD   ORIGIN OF LEVELS: BM 2346   R.L. 5.972

FIELD BOOK: VOL. ....   FOLIO ....   GRID AMG Zone 54.

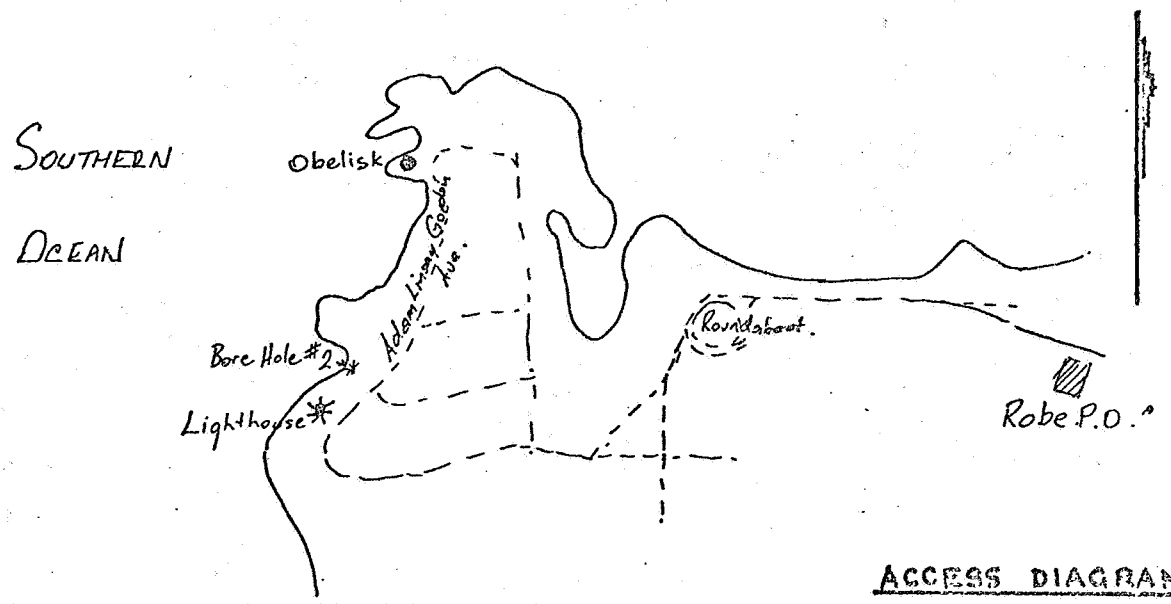
LEVEL BOOK: VOL. P13147   FOLIO 16   SURVEYED BY: [signature]

FILM: ....   PHOTO: ....   RUN: ....   DATE OF SURVEY: 27-5-75

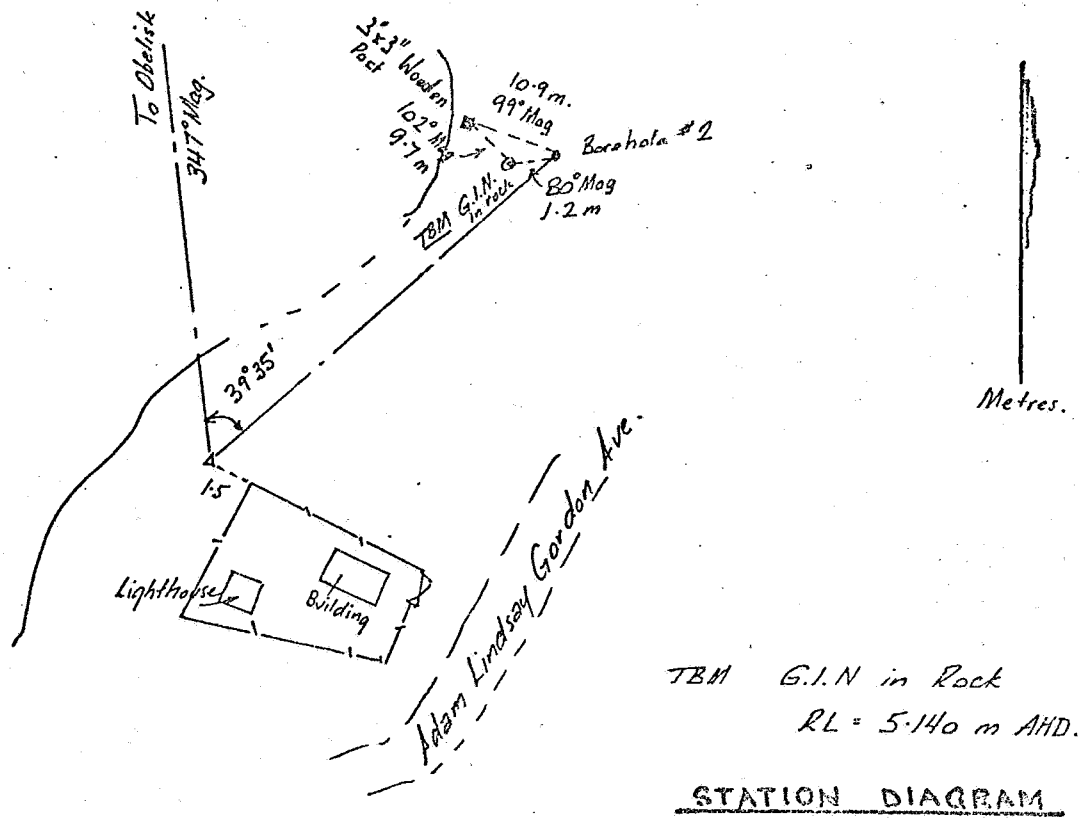
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG ✓ 074

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #2



ACCESS DIAGRAM



TBM G.I.N in Rock
RL = 5.140 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #2	Coords' by Scale		388450·	5886080·	5·1
			·	·	·
TBM. GIN in	Rock		·	·	5·140
			·	·	·
			·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2343 R.L. 1·856

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P13117 FOLIO 5 SURVEYED BY : J.Walker

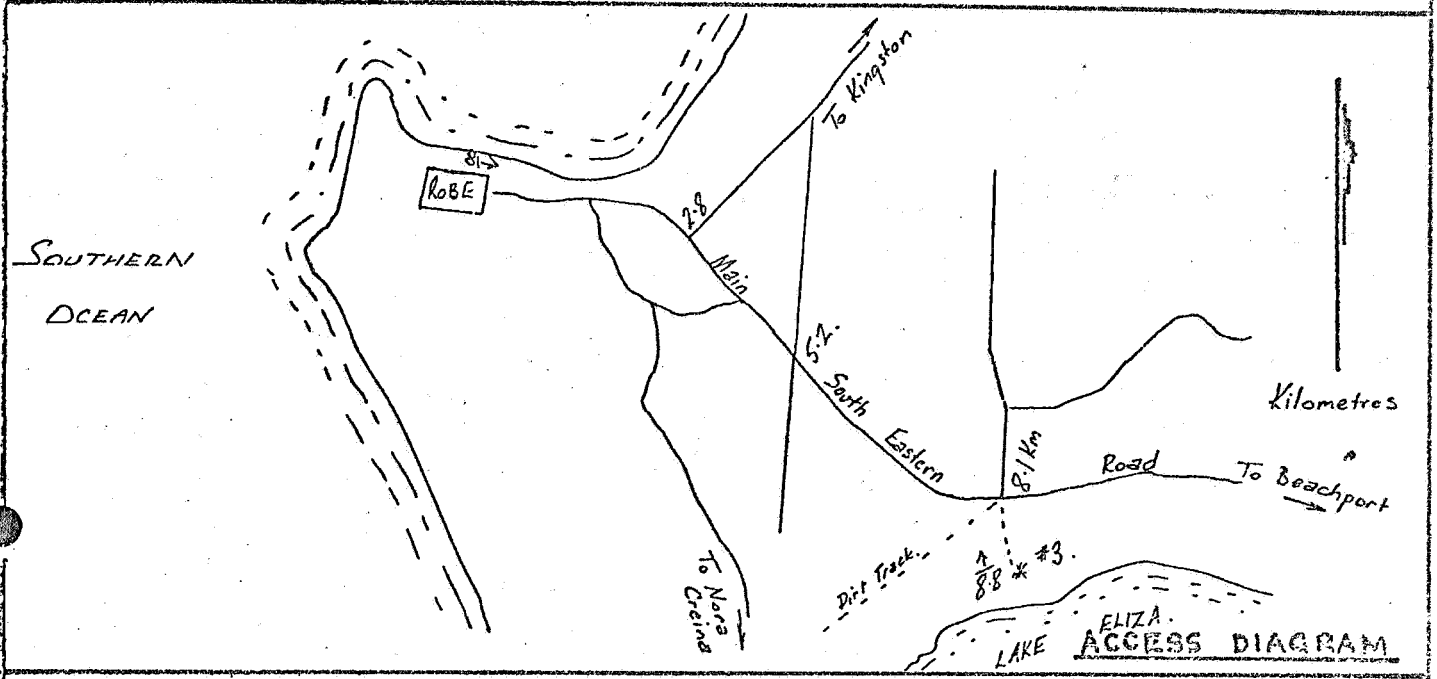
FILM: PHOTO: RUN: DATE OF SURVEY: 23-5-75

DEPARTMENT OF SERVICES AND PROPERTY

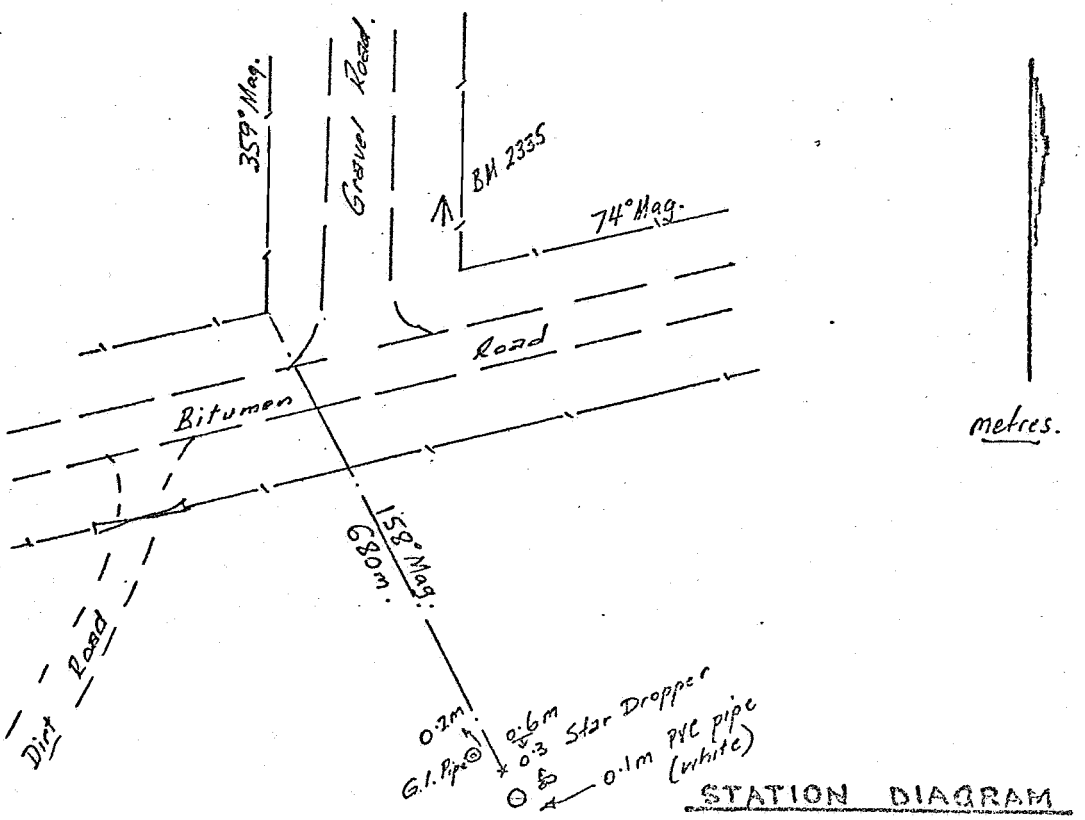
✓ 075

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #3



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #3	° ' "	° ' "	396700	5882100	−0·39
	° ' "	° ' "			
TBM G.I.P.	° ' "	° ' "			−0·390
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 2335 R.L. 1·424

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54

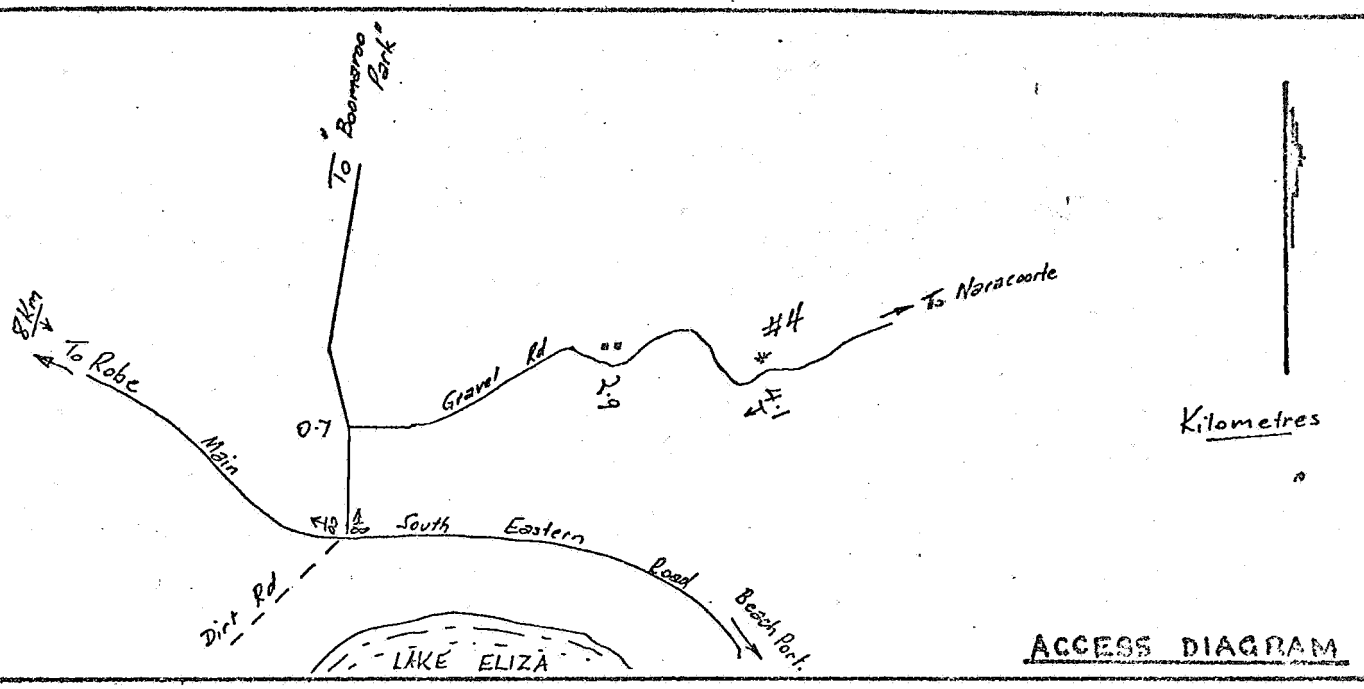
LEVEL BOOK: VOL. P/3147 FOLIO 8 SURVEYED BY :

FILM: PHOTO: RUN: DATE OF SURVEY: 23-5-76

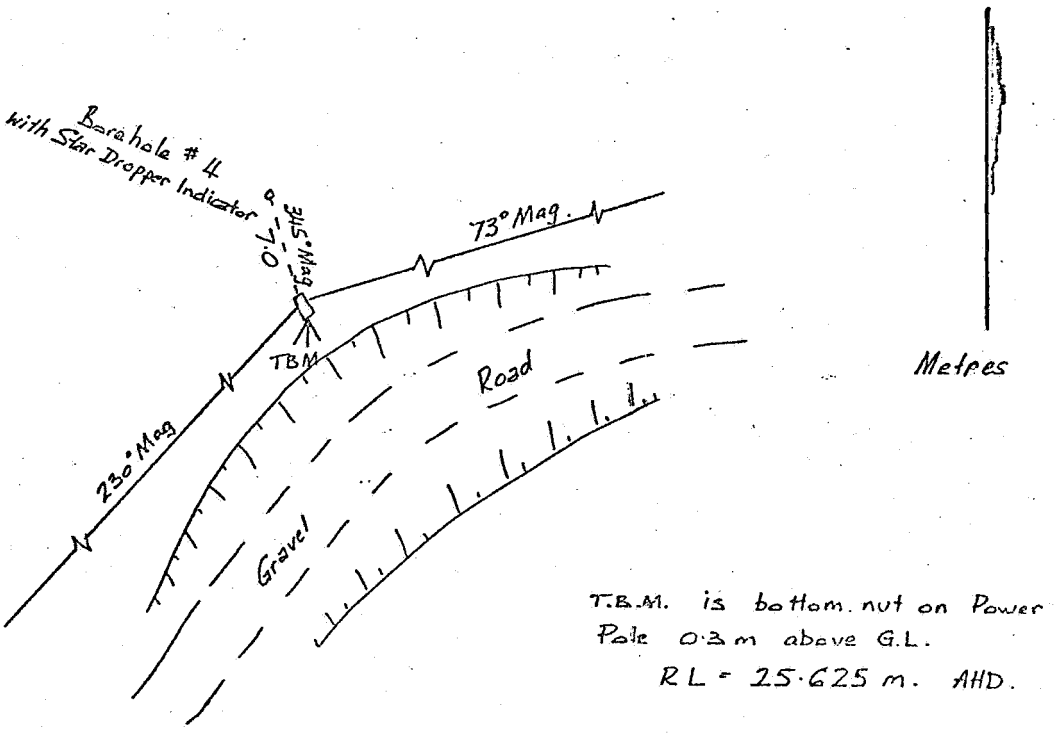
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG ✓ 076

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #4



ACCESS DIAGRAM



T.B.M. is bottom nut on Power Pole 0·3 m above G.L.
RL = 25·625 m. AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #4	° ' "	° ' "	399500·	5884170·	25·14
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

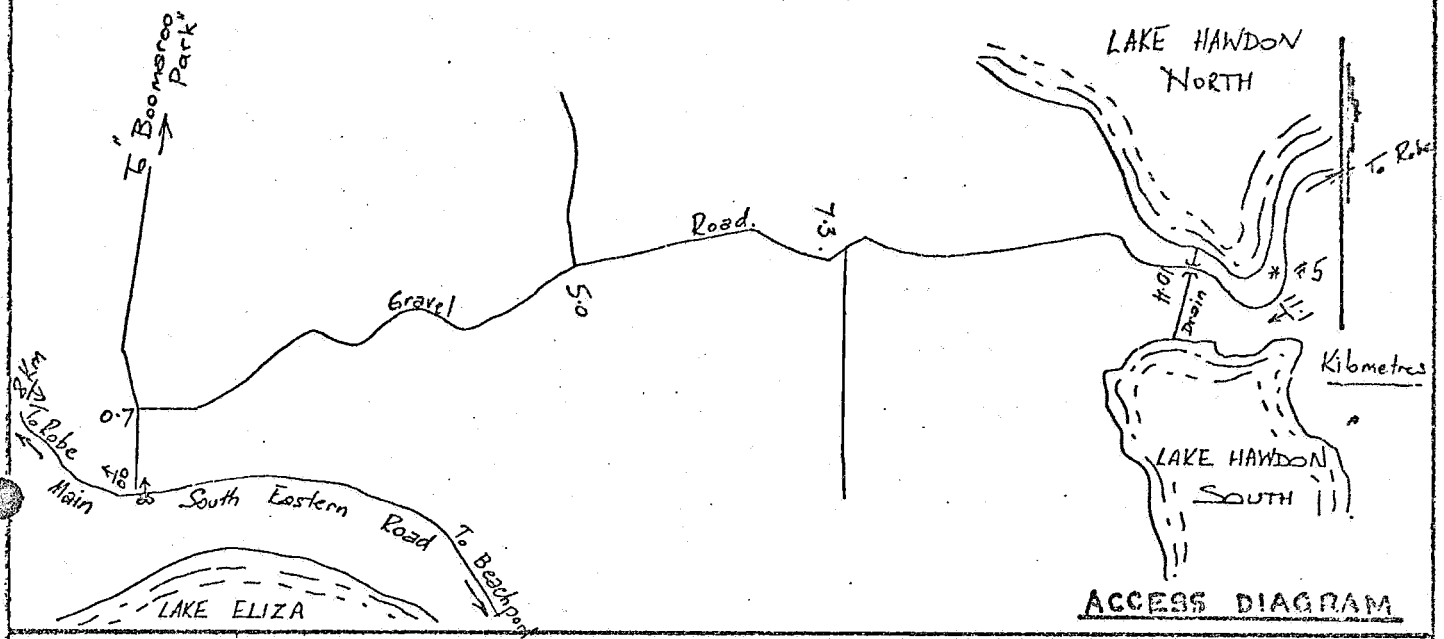
DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 2333 R.L. @ 4·291
FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54
LEVEL BOOK: VOL P13147 FOLIO 9 SURVEYED BY : L. WALTER
FILM:..... PHOTO:..... RUN:..... DATE OF SURVEY: 23-5-75

DEPARTMENT OF SERVICES AND PROPERTY

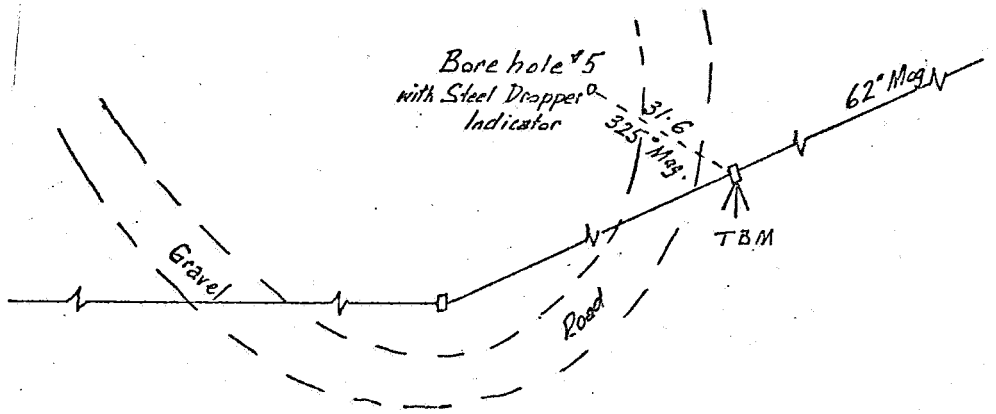
✓ 077

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #5



ACCESS DIAGRAM



TBM Bottom Bolt on South Side of Power Pole 0.2m above G.L.
RL = 6.212 m AHD

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #5	° ' "	° ' "	405970 ·	5884590 ·	5·119
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2329 R.L. 5·373

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54

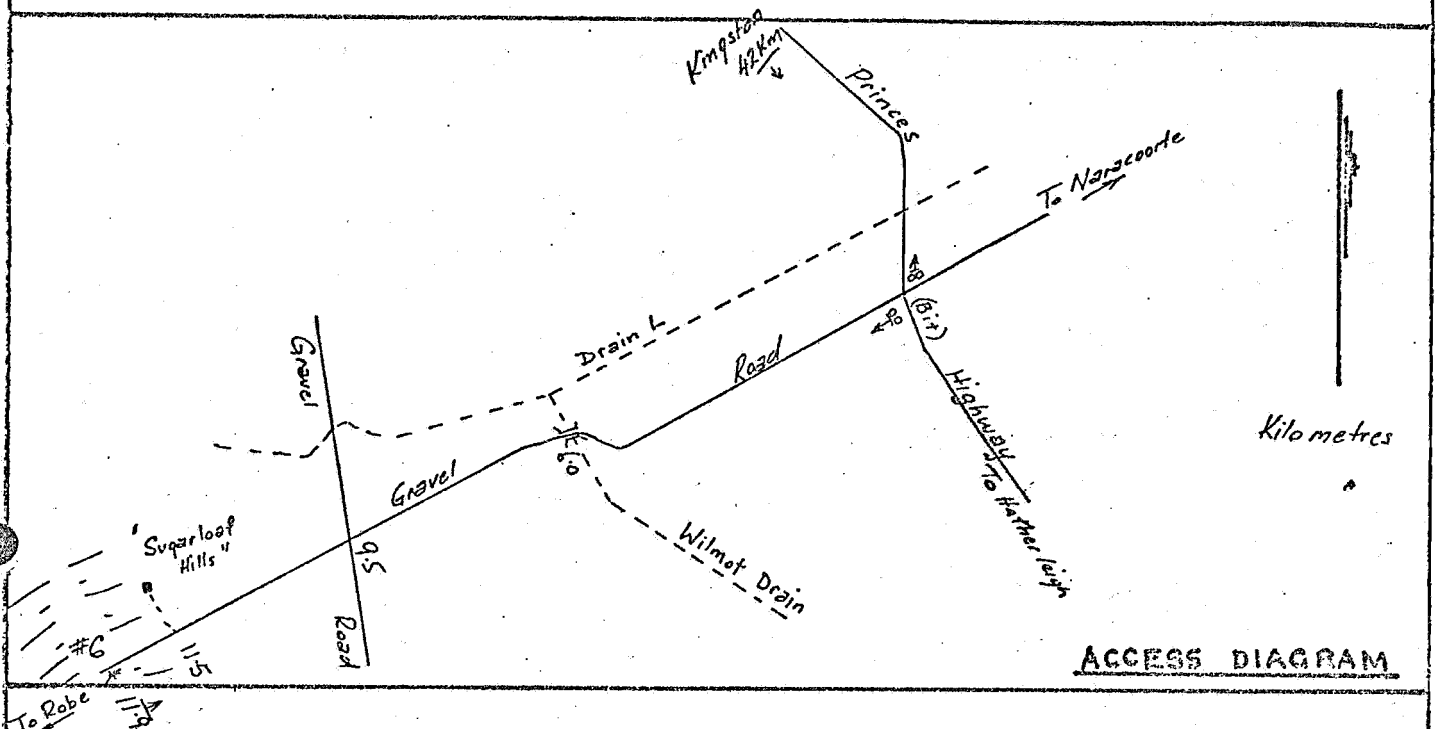
LEVEL BOOK: VOL. P13147 FOLIO 10 SURVEYED BY : [illegible]

DEPARTMENT OF SERVICES AND PROPERTY

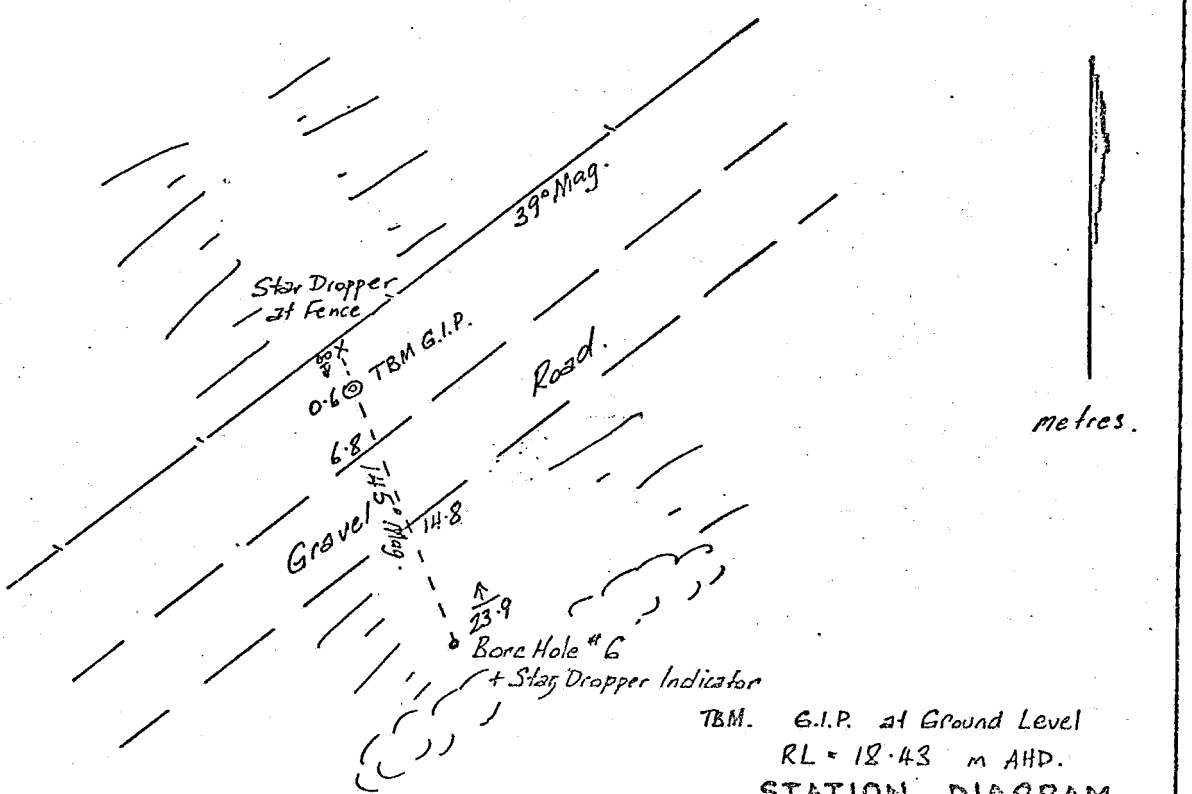
No LOG. 078

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #6



ACCESS DIAGRAM



TBM. G.I.P. at Ground Level
RL = 18·43 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #6	° ' "	° ' "	409260	5887250	18·62
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2327 R.L. 5·628

FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

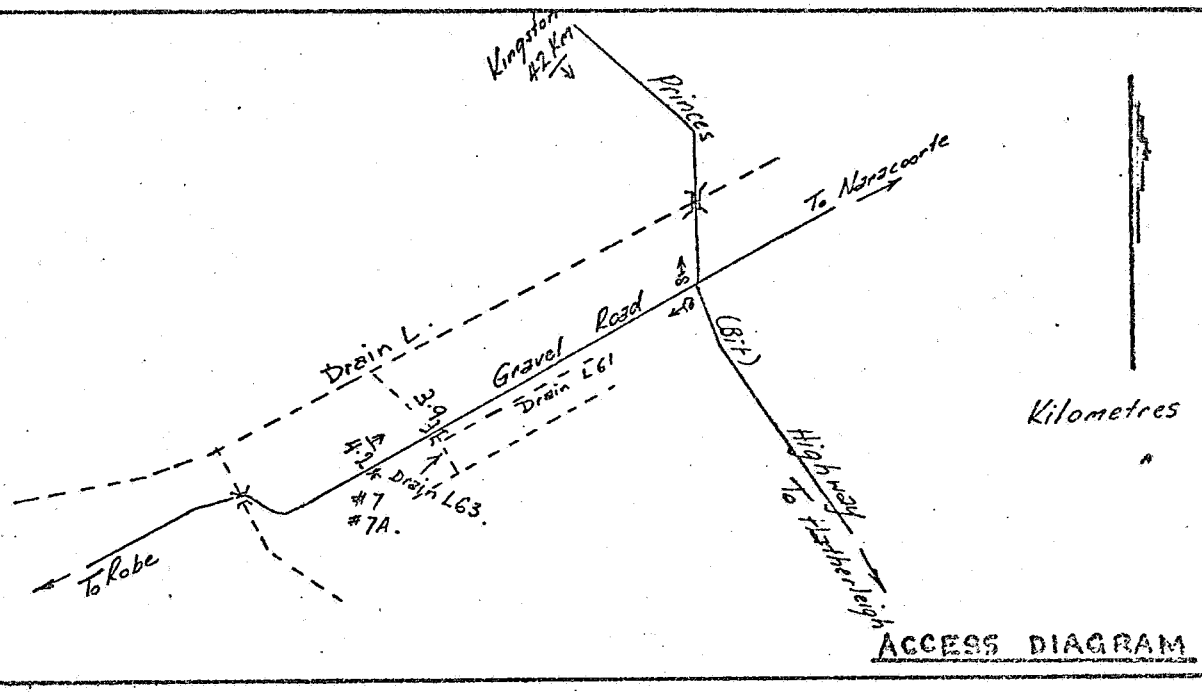
LEVEL BOOK: VOL. P13147 FOLIO 11 SURVEYED BY: [illegible]

FILM: PHOTO: RUN: DATE OF SURVEY: 24-5-75

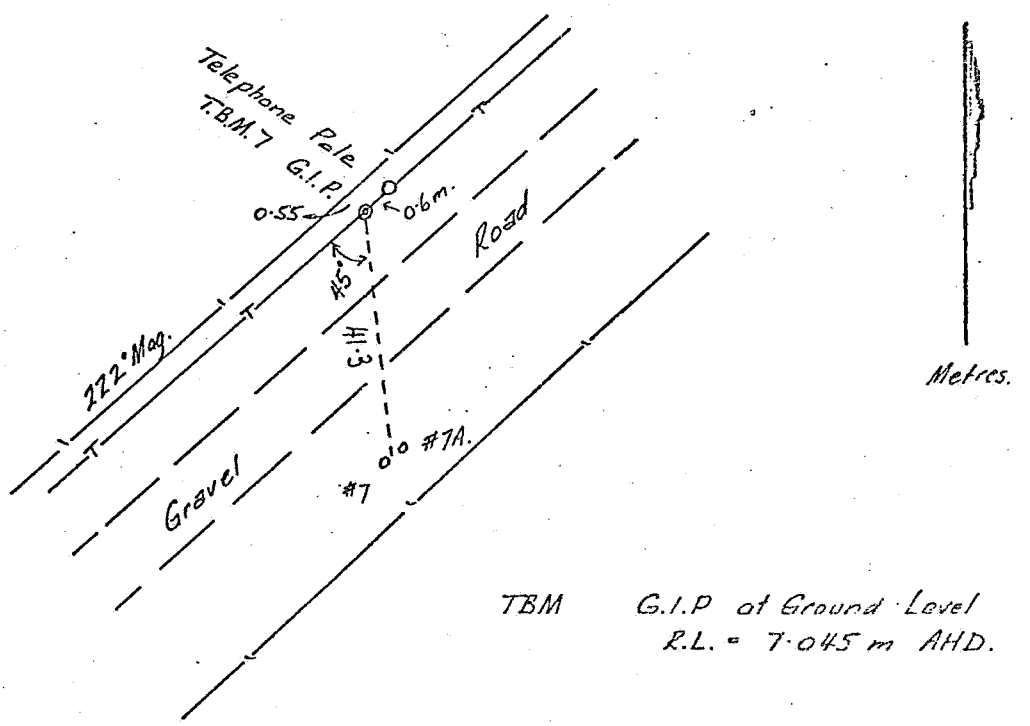
DEPARTMENT OF SERVICES AND PROPERTY

J 079

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole # 7, #7A.



ACCESS DIAGRAM



TBM G.I.P of Ground Level
R.L. = 7·045 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore hole # 7	° ' "	° ' "	415380·	5891600·	7·0
	° ' "	° ' "	·	·	·
Bore hole #7A.	° ' "	° ' "	415380·	5891600·	7·0
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2372 R.L. 7·050

FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54.

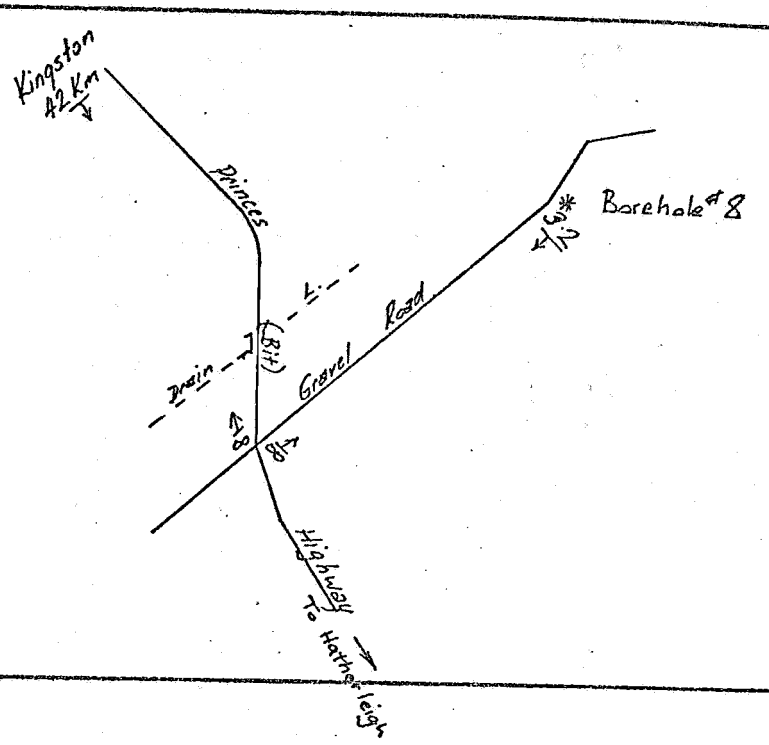
LEVEL BOOK : VOL. P13147 FOLIO 13 SURVEYED BY : [illegible]

DEPARTMENT OF SERVICES AND PROPERTY

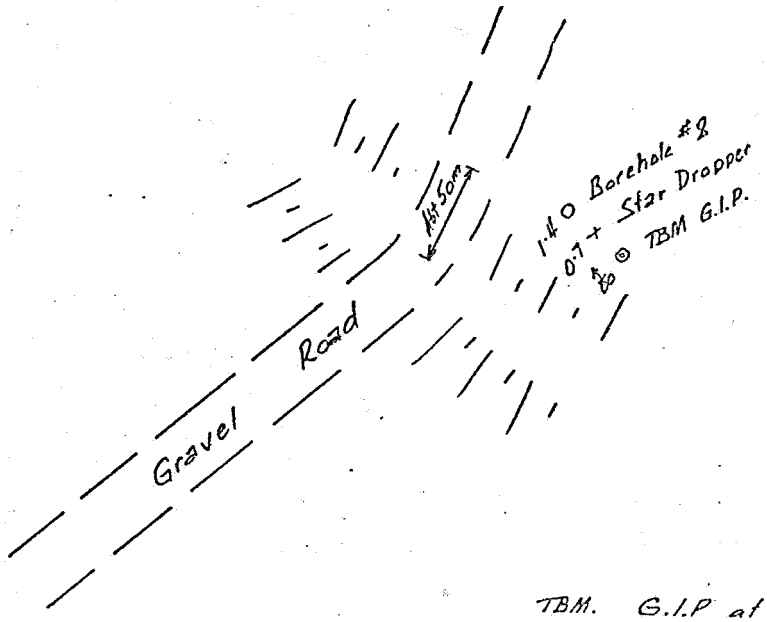
✓ 080

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. [illegible]



ACCESS DIAGRAM



TBM. G.I.P at Ground Level
R.L = 28·254 m AHD.

37.04/28 MO. 0668

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Borehole #8	° ′ ″	° ′ ″	420 930	5896 470	28·37
	° ′ ″	° ′ ″			
	° ′ ″	° ′ ″			
	° ′ ″	° ′ ″			
	° ′ ″	° ′ ″			
	° ′ ″	° ′ ″			

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2319 R.L. 17·954

FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54

LEVEL BOOK: VOL. P13147 FOLIO 14 SURVEYED BY : [illegible]

FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: [illegible]

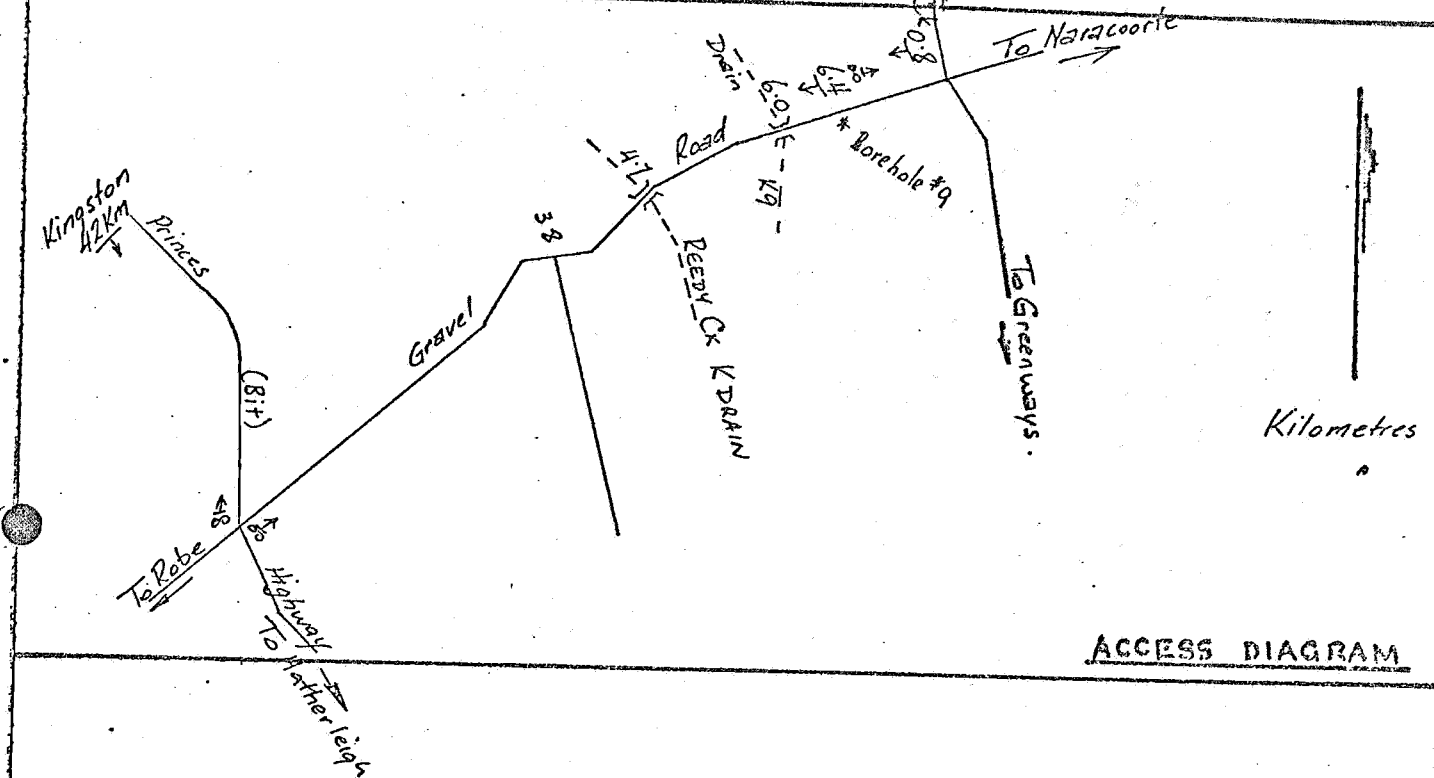
DEPARTMENT OF SERVICES AND PROPERTY

? 6923 - 1732

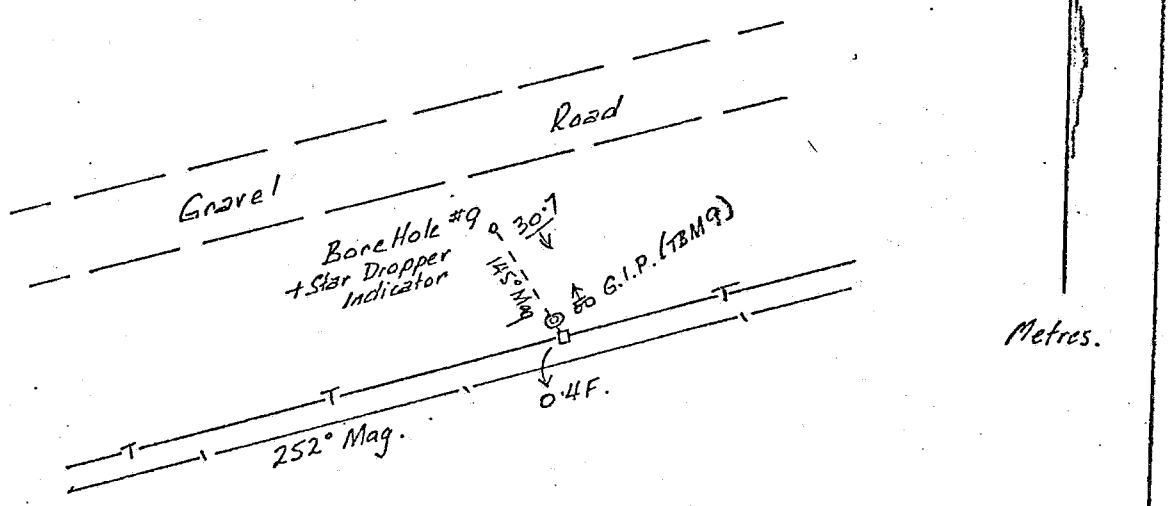
No Log. 081

PROJECT ROBE – NARACOORTE COASTAL SURVEY.

STN. Bore Hole #9



ACCESS DIAGRAM



TBM 9. G.IP at Ground Level
RL = 20·333 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #9	° ' "	° ' "	423780·	5897810·	20·1
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2317 R.L. 21·140

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54.

LEVEL BOOK: VOL P/3147 FOLIO 15 SURVEYED BY : JWalker.

FILM: PHOTO: RUN: DATE OF SURVEY: 30-5-75

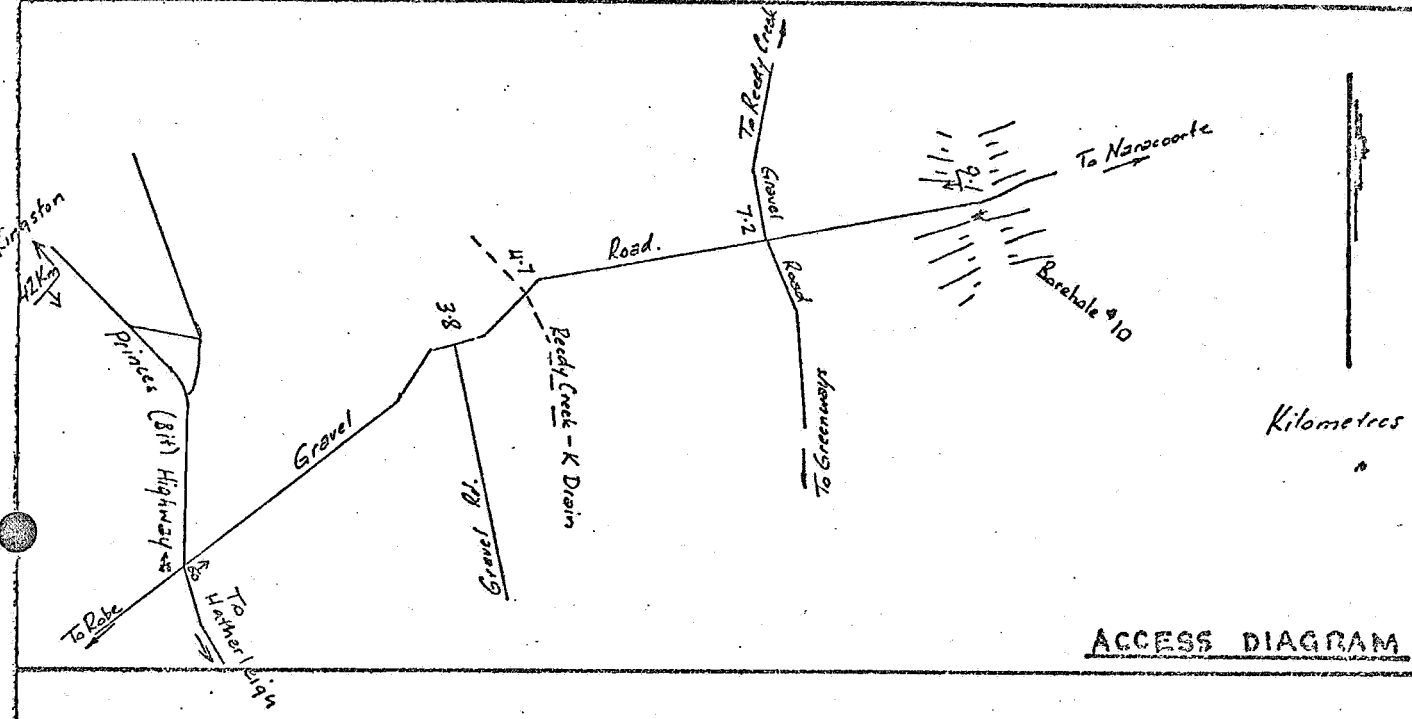
6923 1741?

DEPARTMENT OF SERVICES AND PROPERTY

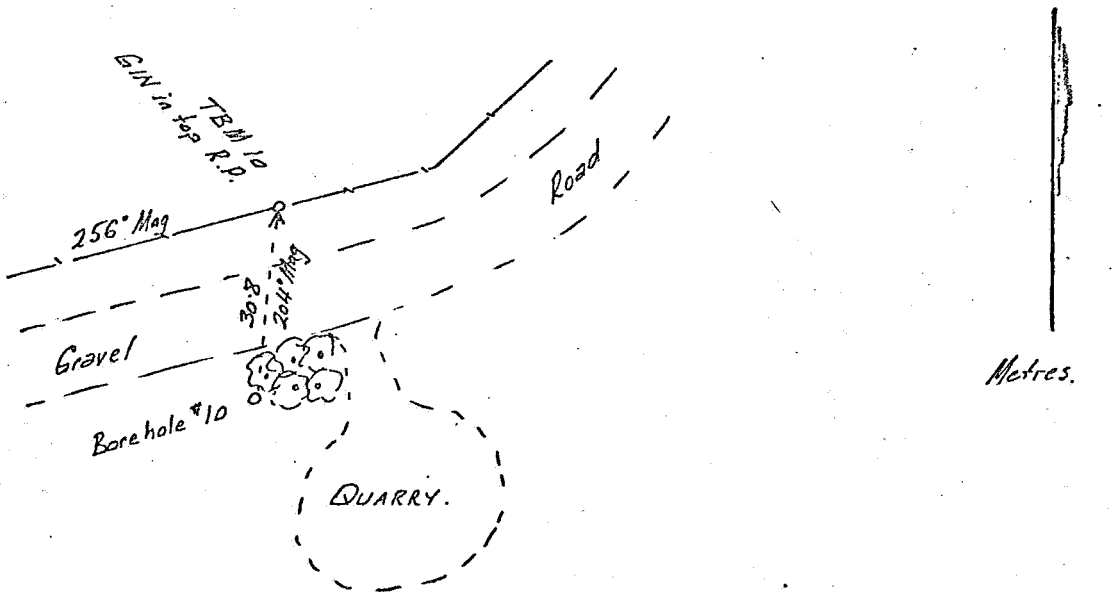
No Log 082

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore hole #10



ACCESS DIAGRAM



TBM 10. G.I.N in top R.P.
RL = 40·15 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #10	° ' "	° ' "	426430·	5898340·	37·97
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: RM 2313 R.L. 22·573

FIELD BOOK: VOL. 4 11359 FOLIO 1 GRID AMG Zone 54

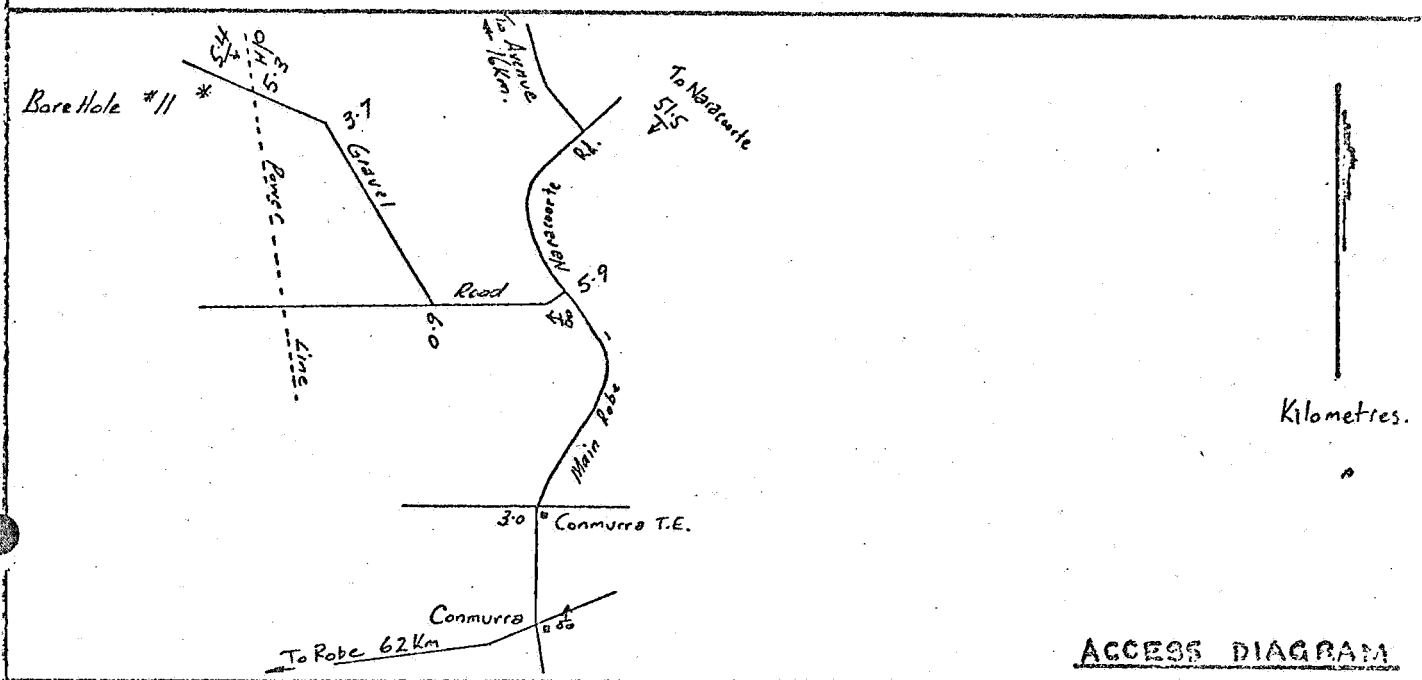
LEVEL BOOK: VOL. P13147 FOLIO 25 SURVEYED BY: [illegible]

FILM: PHOTO: RUN: DATE OF SURVEY: 28-5-75

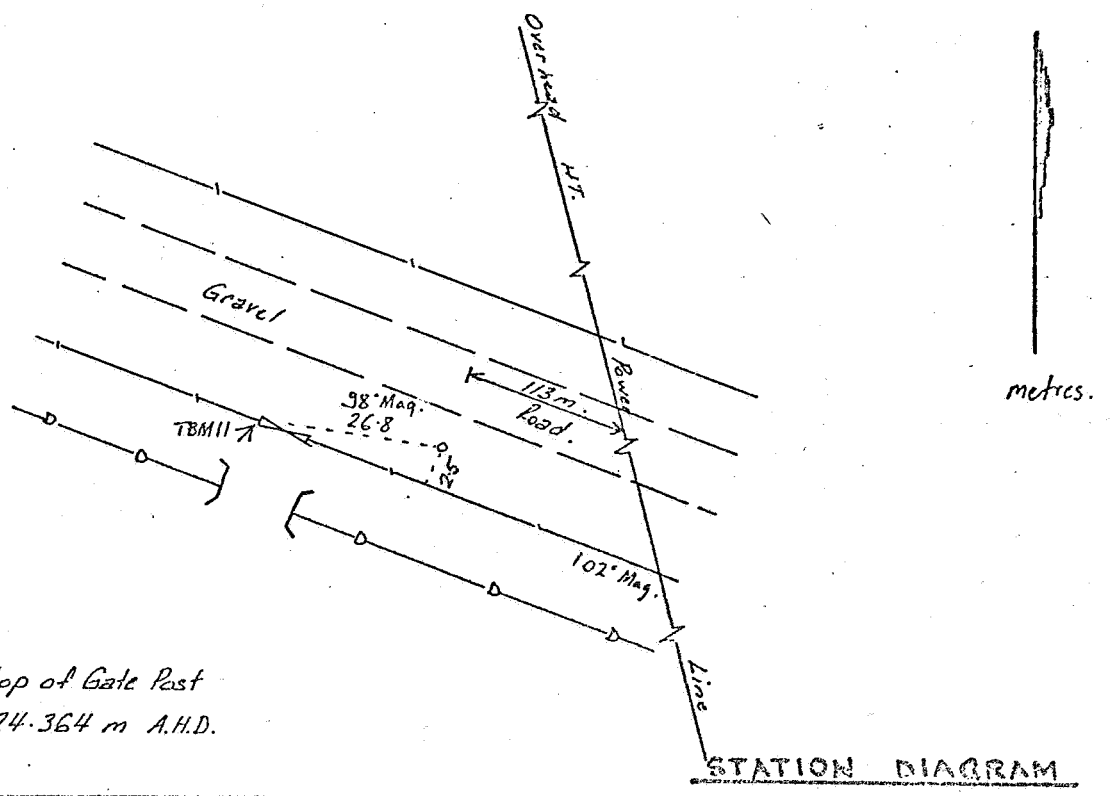
DEPARTMENT OF SERVICES AND PROPERTY

083

PROJECT ROBE – NARACOORTE COASTAL SURVEY **STN.** Bore Hole #11



ACCESS DIAGRAM



TBM 11 G.I.N. in top of Gate Post
RL = 24.364 m A.H.D.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #11	° ' "	° ' "	432360	5898290	23.20
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 2312 R.L. 23.07

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54

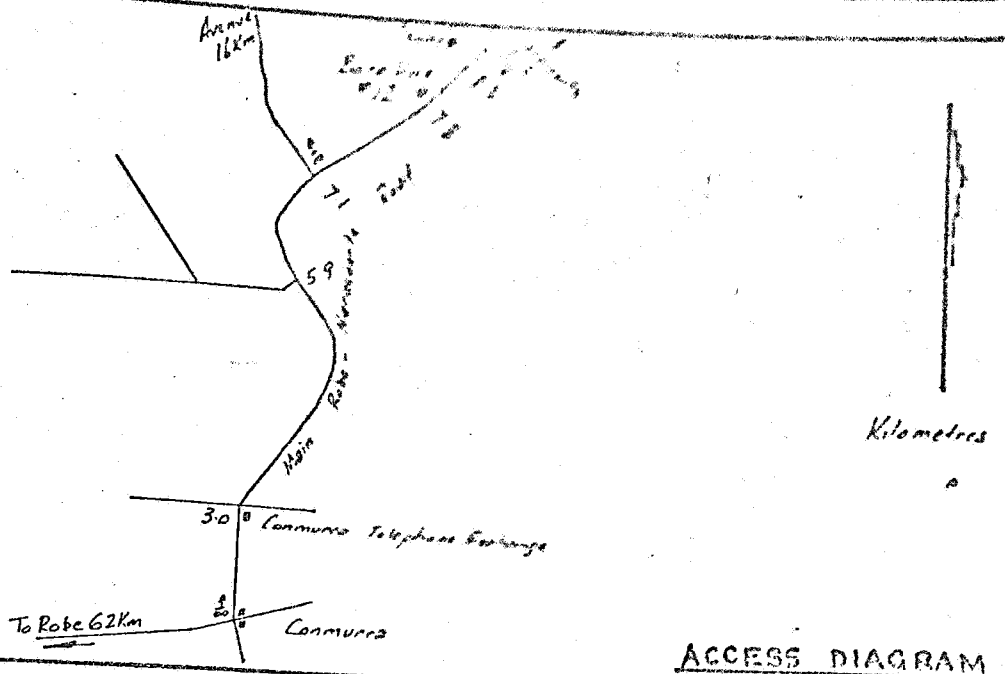
LEVEL BOOK: VOL P/3147 FOLIO 22 SURVEYED BY : [illegible]

FILM : PHOTO: RUN: DATE OF SURVEY: 28th 5th 82

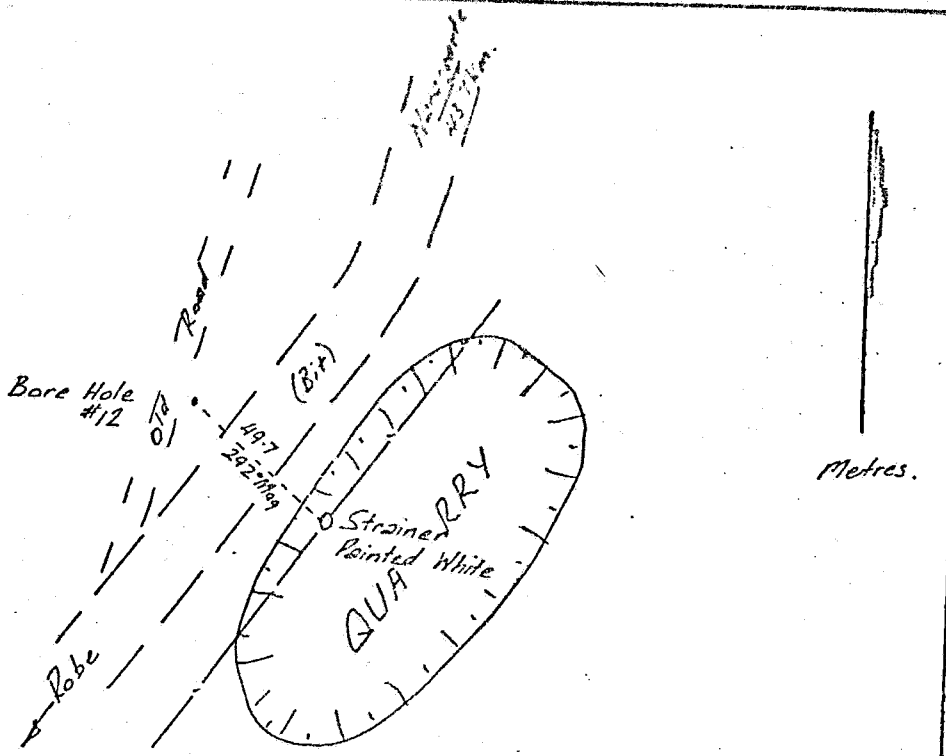
DEPARTMENT OF SERVICES AND PROPERTY

✓ 084

PROJECT ROBE - NARACOORTE [illegible] SCALE [illegible]



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #12	° ' "	° ' "	437150·	5897350·	33·34
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: B.M. 2309 R.L. 28.304

FIELD BOOK : VOL K11359 FOLIO 12 GRID AMG Zone 54

LEVEL BOOK: VOL P13150 FOLIO 14 SURVEYED BY : [illegible]

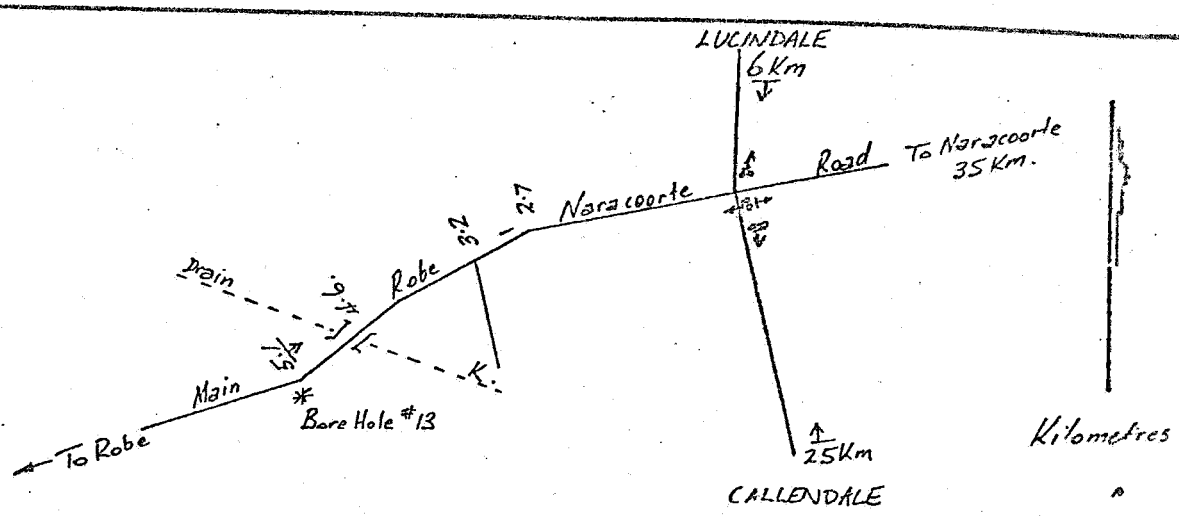
FILM: PHOTO: RUN: DATE OF SURVEY:

DEPARTMENT OF SERVICES AND PROPERTY

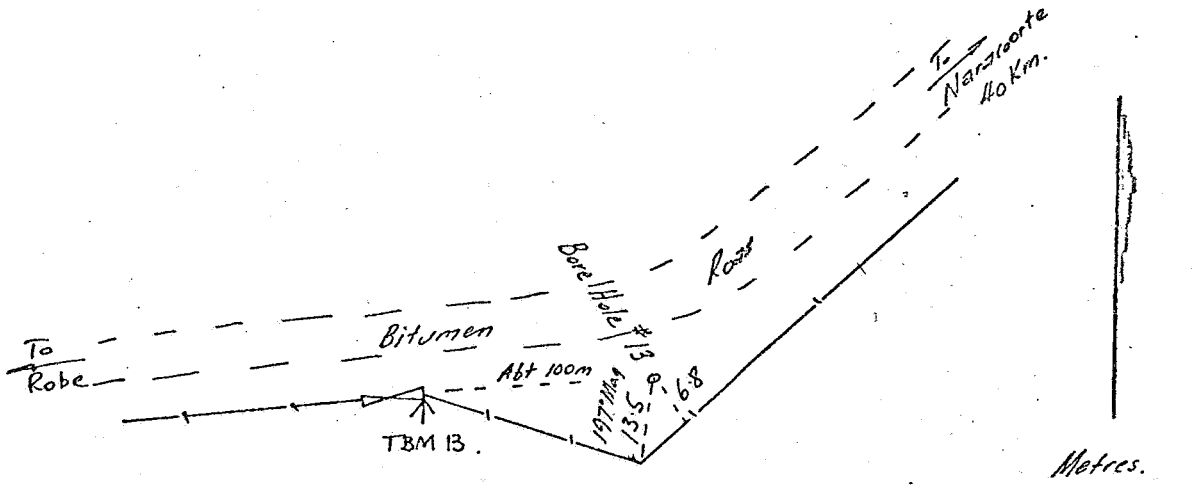
NG NO Loc 085

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #13



ACCESS DIAGRAM



TBM 13. G.I.N. in Top of Gate Post.
RL = 27.843

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #13	° ' "	° ' "	439260.	5899970.	27.1
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2307 R.L. 26.940

FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54

LEVEL BOOK: VOL. P1315o FOLIO 15 SURVEYED BY : Gibbs

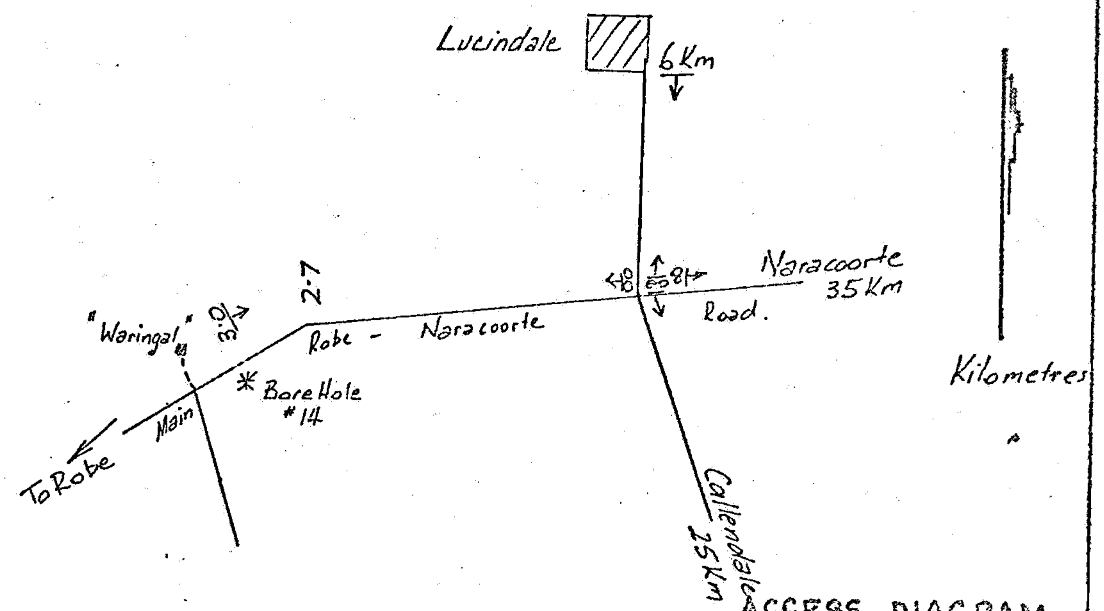
FILM:..... PHOTO:..... RUN:..... DATE OF SURVEY: 14th 6 75

6923 - 1410

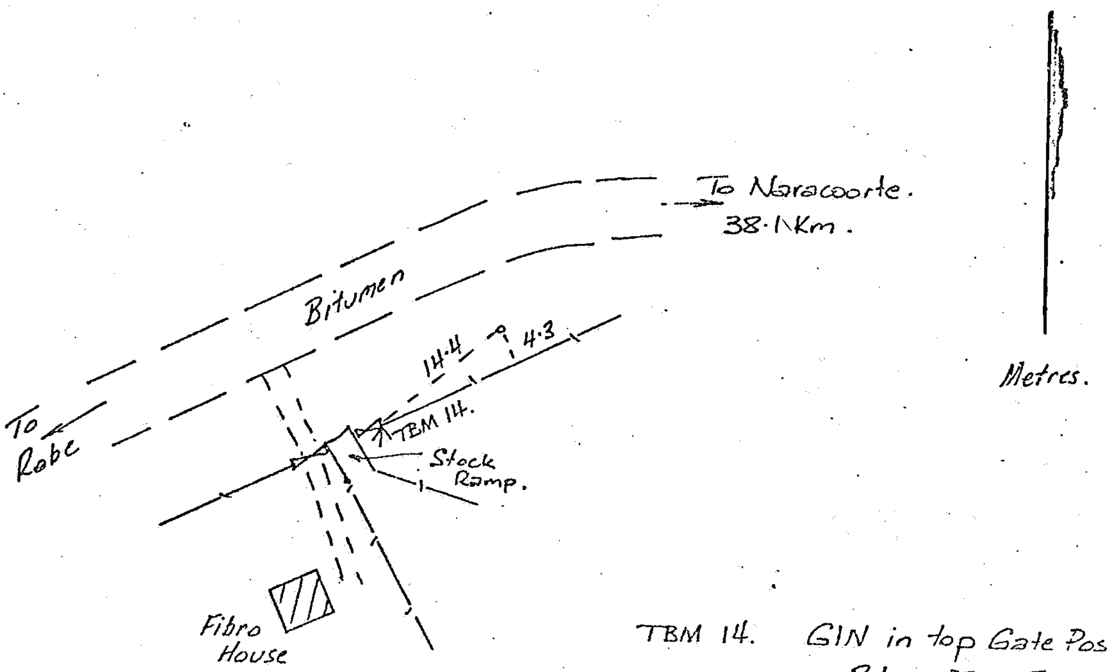
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG. **086**

PROJECT Robe - Naracoorte Coastal Survey **STN.** Bore Hole #14



ACCESS DIAGRAM



TBM 14. GIN in top Gate Post
RL = 32·005 m AHD.

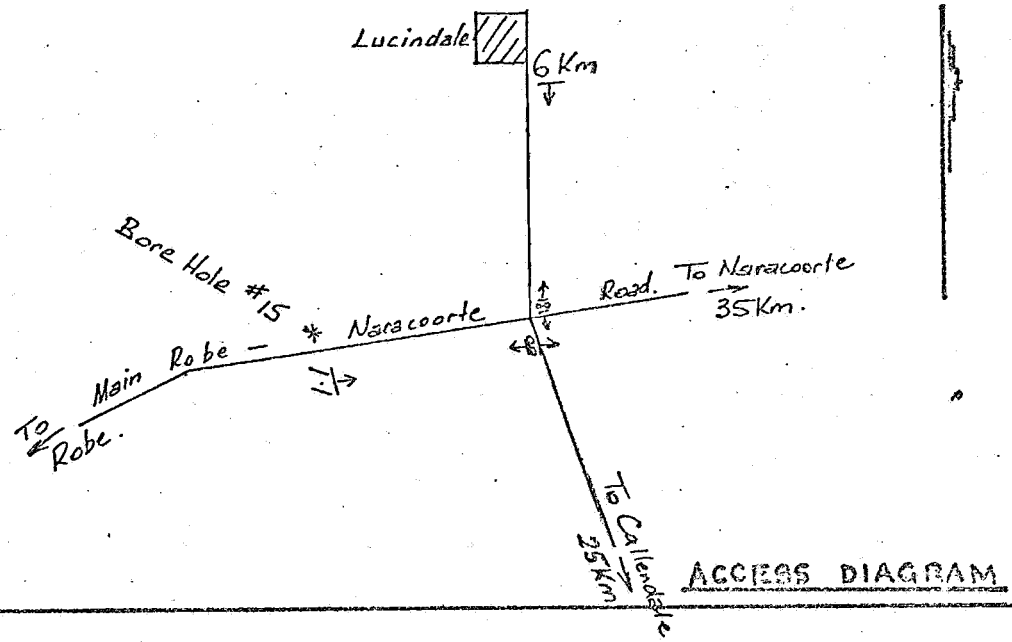
STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #14	° ′ ″	° ′ ″	440910·	5901190·	31·14
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·

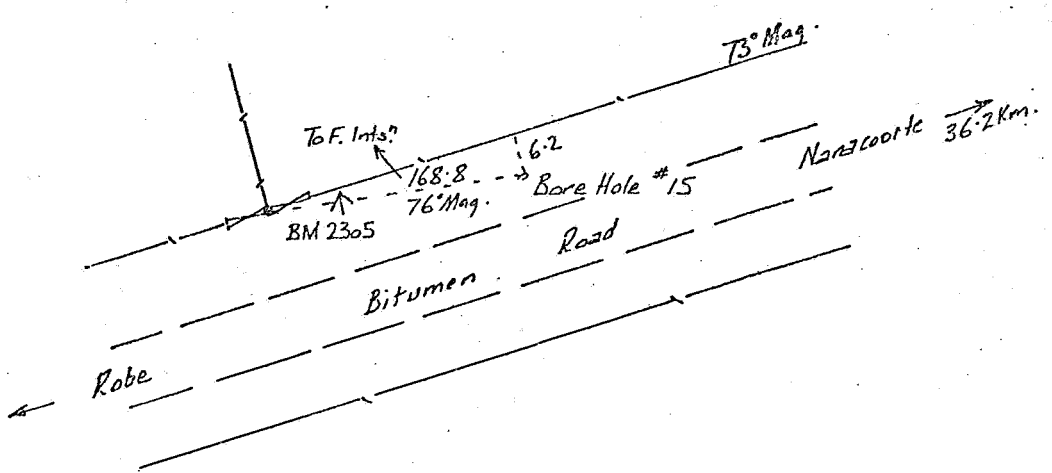
DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 2306 R.L. 31·65
FIELD BOOK: VOL. ..... FOLIO ..... GRID AMG Zone 54.
LEVEL BOOK: VOL. P13150 FOLIO 16 SURVEYED BY: [signature]
FILM: ...... PHOTO: ...... RUN: ...... DATE OF SURVEY: 14-6

DEPARTMENT OF SERVICES AND PROPERTY ✓ 087

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #15



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #15	° ' "	° ' "	442800.	5901680.	27.36
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2305 R.L. 27.32

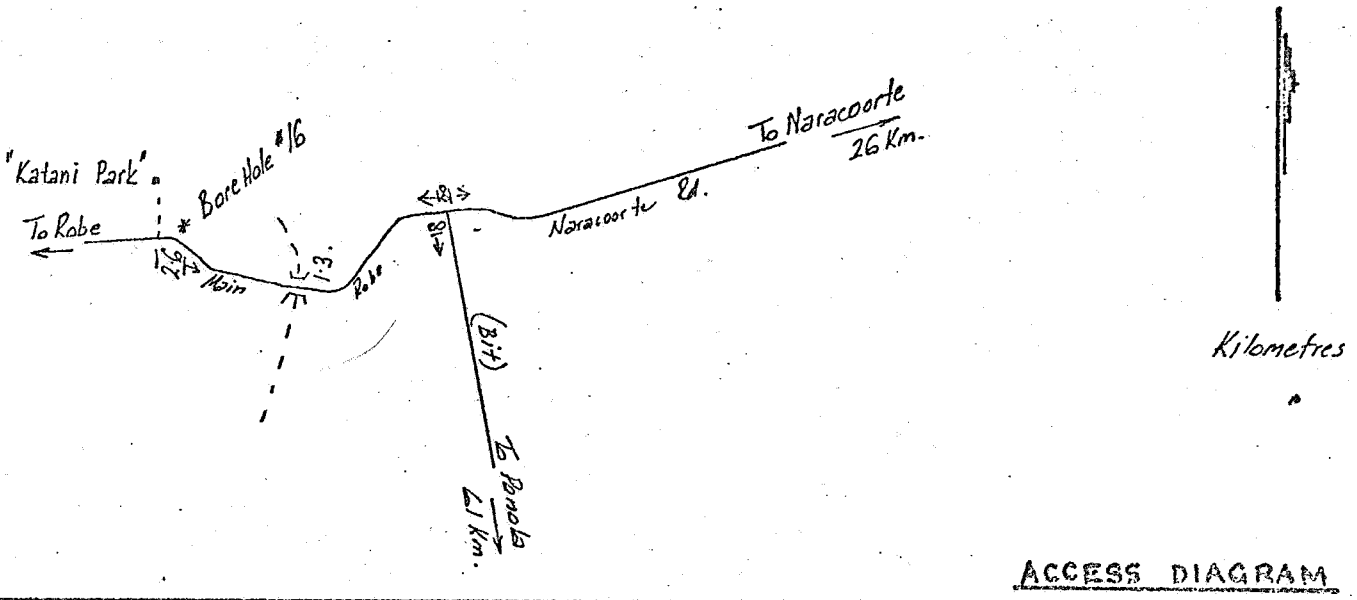
FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54

LEVEL BOOK: VOL. P13150 FOLIO 17 SURVEYED BY : [illegible]

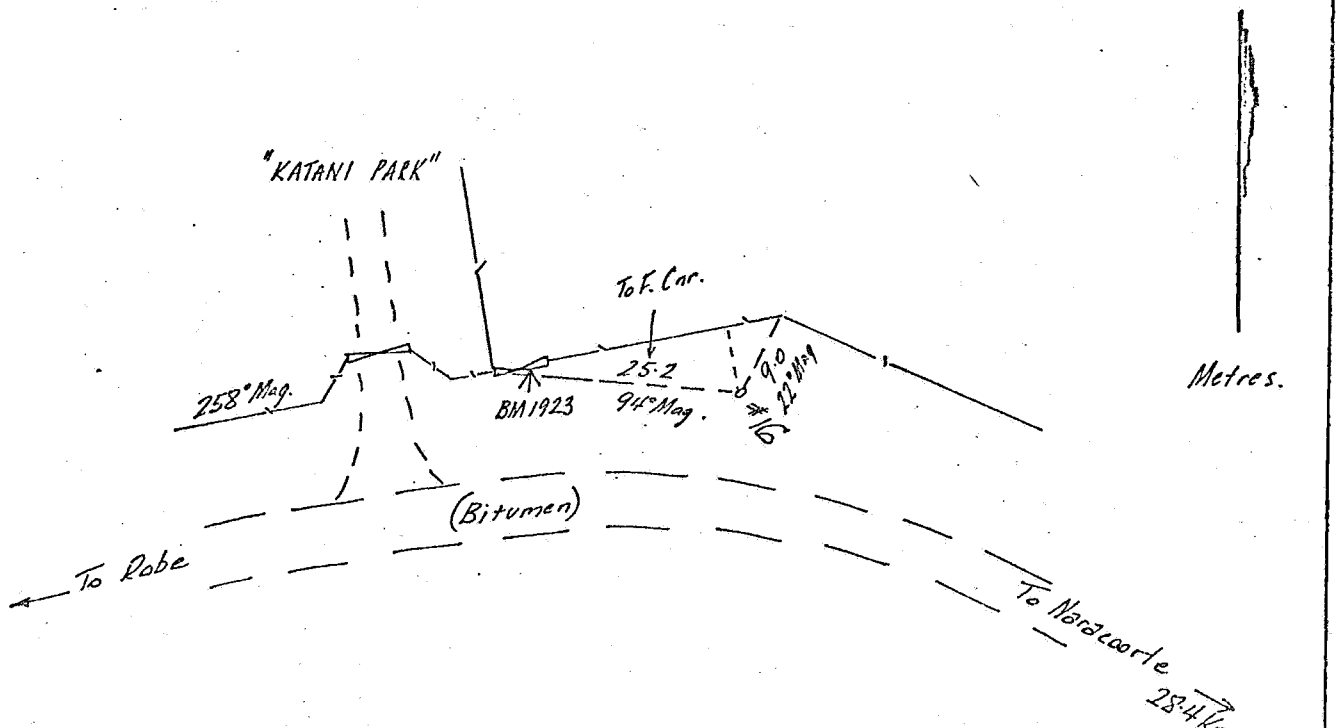
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 11 - 6 - 75

DEPARTMENT OF SERVICES AND PROPERTY ✓ 088

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #16



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #16	° ' "	° ' "	450600·	5902740·	51·1
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 1923 R.L. 50.407

FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54

LEVEL BOOK: VOL. P13150 FOLIO 13 SURVEYED BY : M. Webber

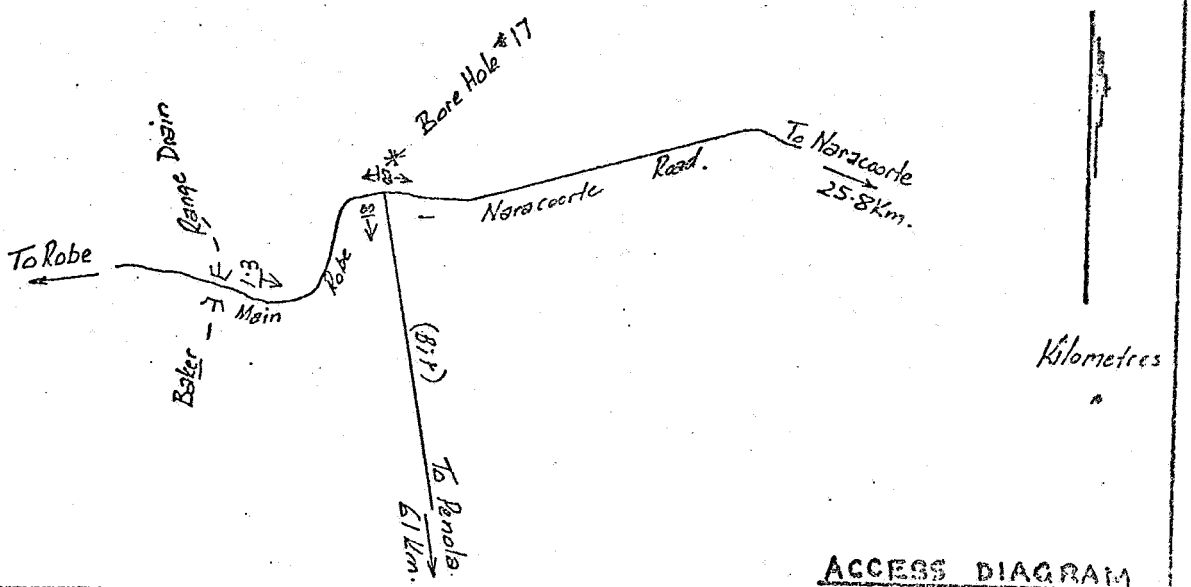
FILM: PHOTO: RUN: DATE OF SURVEY: 13-6-75

(BNR) 6923 1419

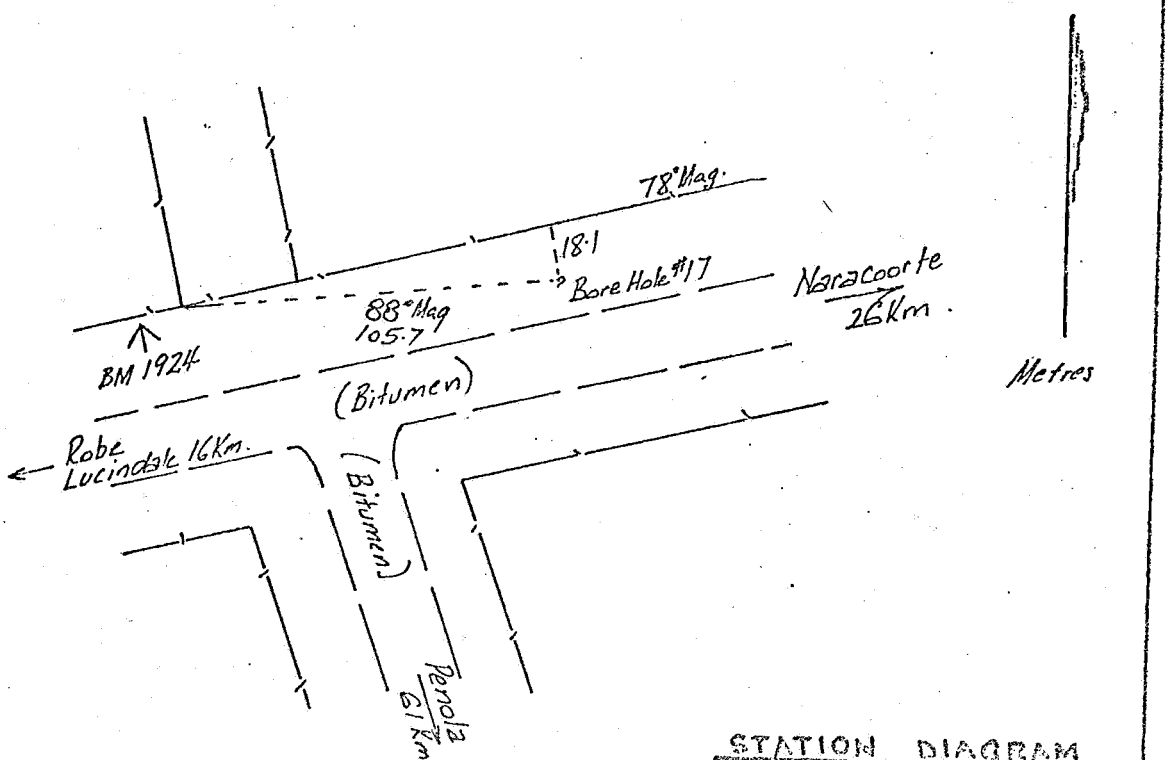
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG 089

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #17



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #17	° ' "	° ' "	452860·	5903020·	36·8
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 1924 R.L. 36.605

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P13150 FOLIO 13 SURVEYED BY : Whittet

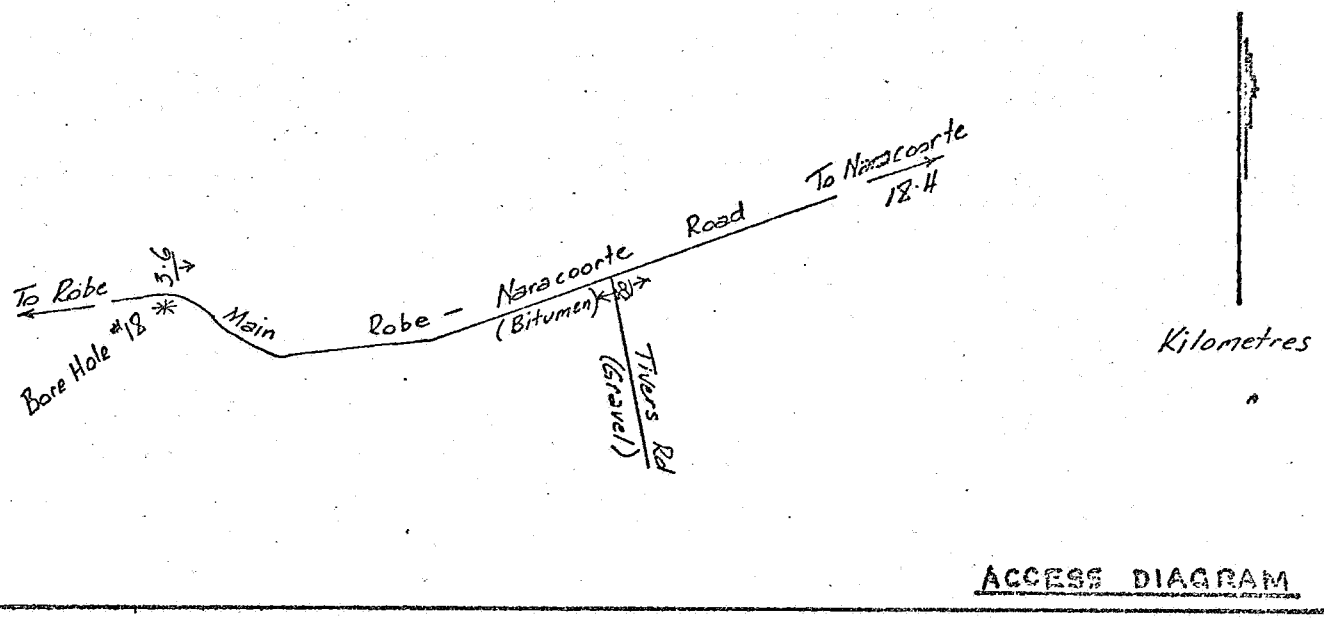
FILM: PHOTO: RUN: DATE OF SURVEY: 13-6-75

BMR 18 7023 17

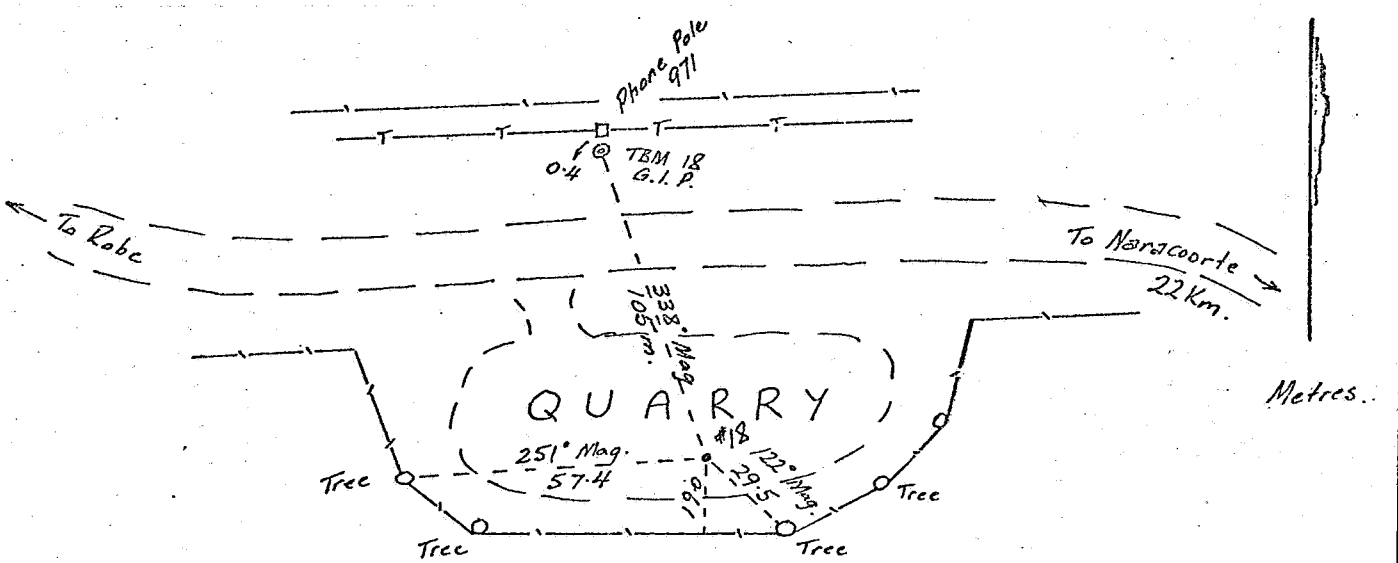
DEPARTMENT OF SERVICES AND PROPERTY

NEO LOG 090

PROJECT ROBE – NARACOORTE COASTAL SURVEY STN. Bore Hole #18



ACCESS DIAGRAM



TBM 18 G.I.P at foot of Phone Pole 971
RL = 42·97 m AHD.

STATION DIAGRAM

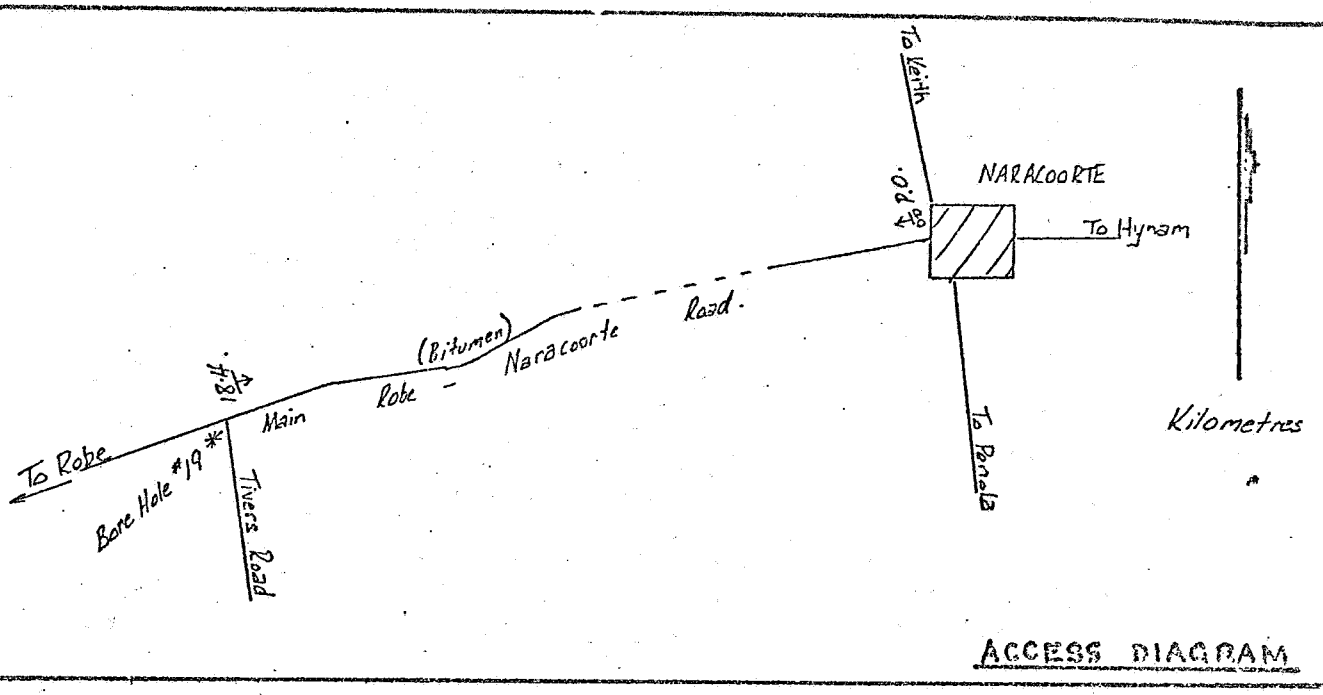
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #18	° ' "	° ' "	456500·	5903240·	46·9
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 1927 R.L. 42·925
FIELD BOOK : VOL. FOLIO GRID AMG Zone 54
LEVEL BOOK : VOL. P13150 FOLIO 12 SURVEYED BY : K Walter
FILM: PHOTO: RUN: DATE OF SURVEY : 13 – 6 – 75

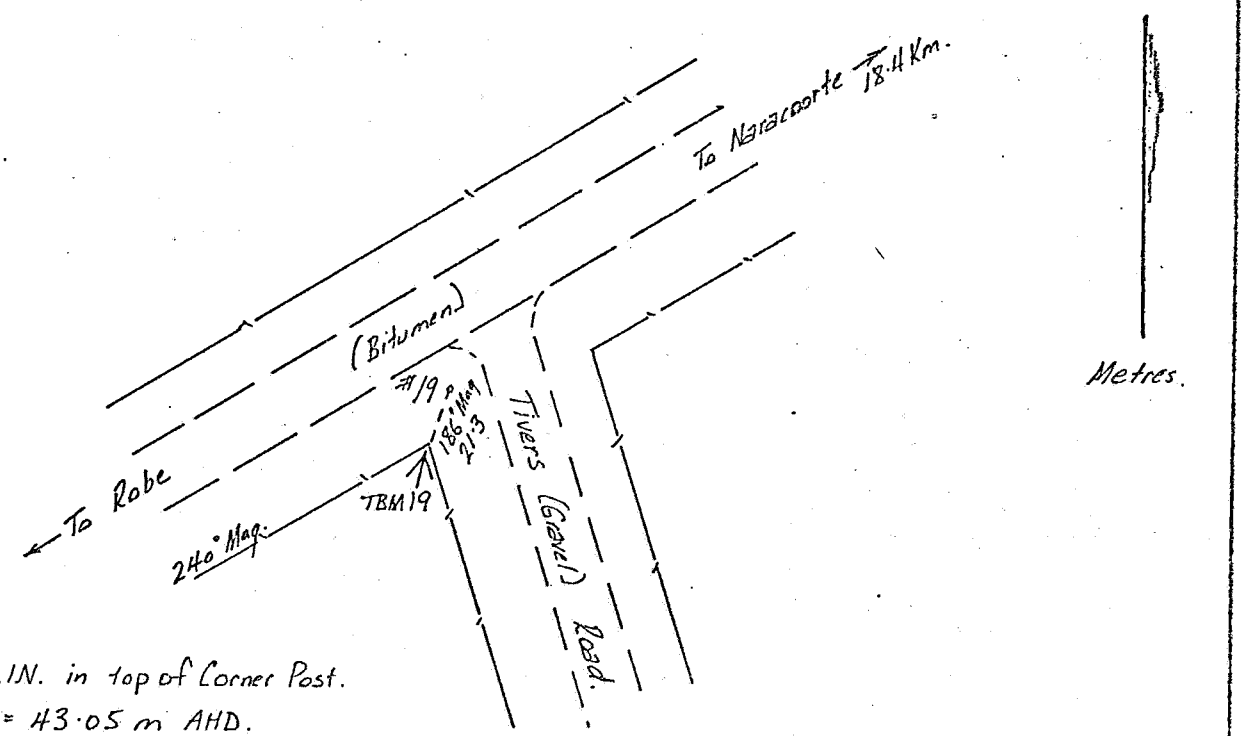
DEPARTMENT OF SERVICES AND PROPERTY

7023-3283 ✓ 091

PROJECT ROBE – NARACOORTE COASTAL SURVEY **STN.** Bore Hole #19



ACCESS DIAGRAM



TBM 19 G.I.N. in top of Corner Post.
RL = 43·05 m AHD.

STATION DIAGRAM

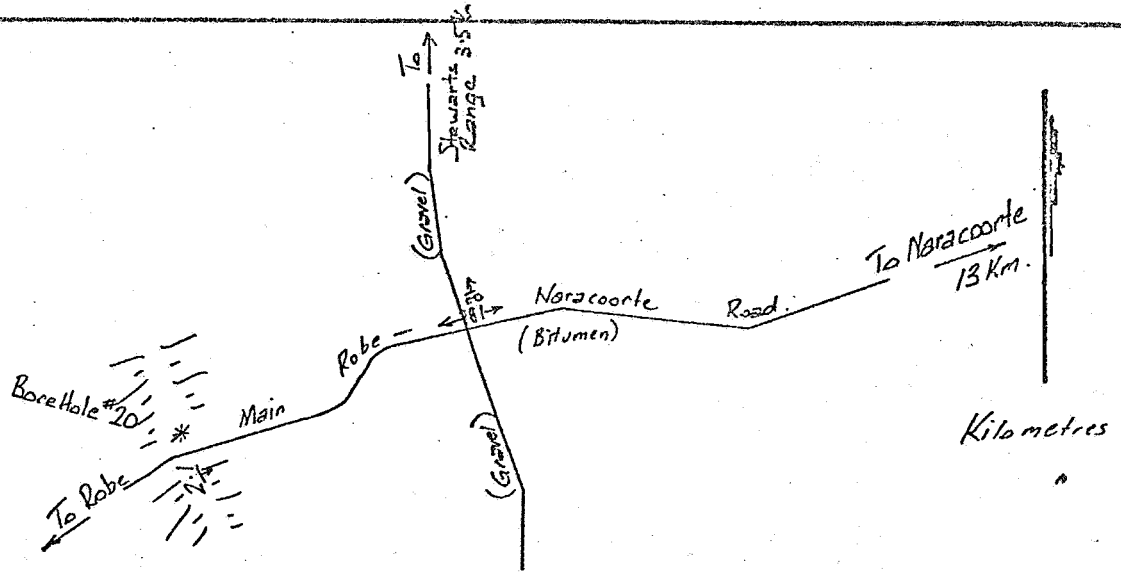
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #19	° ′ ″	° ′ ″	459850·	5903800·	41·6
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 1928 R.L. 40·979
FIELD BOOK : VOL. FOLIO GRID AMG Zone 54
LEVEL BOOK: VOL P13149 FOLIO 6 SURVEYED BY : [illegible]
FILM: PHOTO: RUN: DATE OF SURVEY: 6-1-75

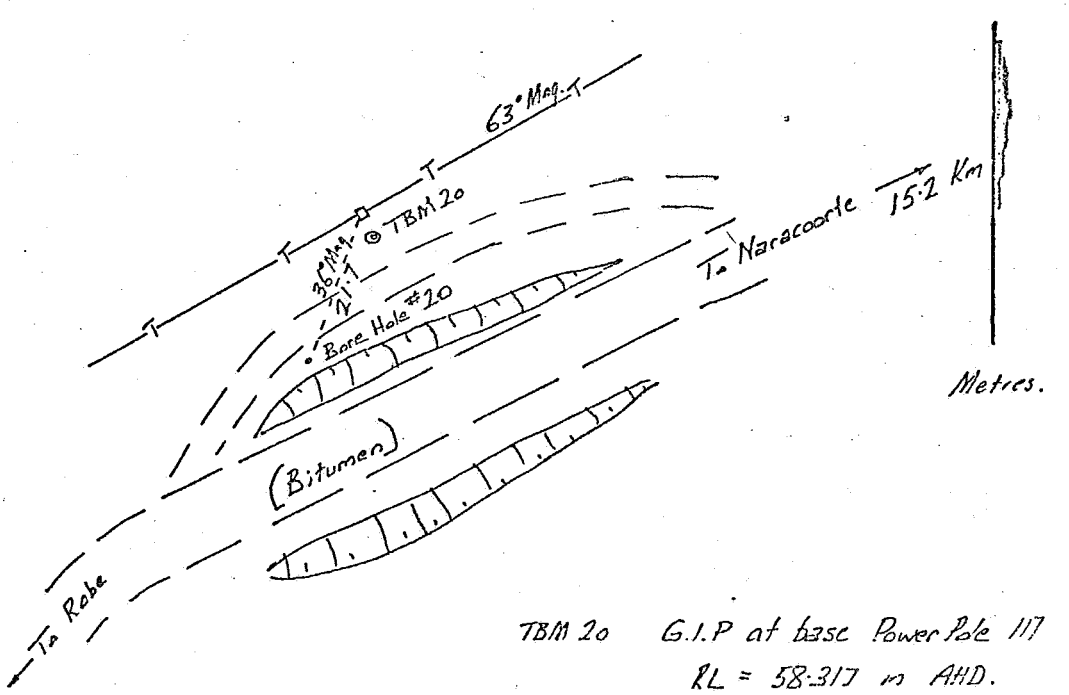
DEPARTMENT OF SERVICES AND PROPERTY

7023-16 092

PROJECT ROBE - NARACOORTE COASTAL SURVEY. **STN.** Bore Hole #20



ACCESS DIAGRAM



TBM 20 G.I.P at base Power Pole 117
RL = 58.317 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole # 20	° ' "	° ' "	462890.	5904860.	57.8
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 1931 R.L. 43.117

FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54

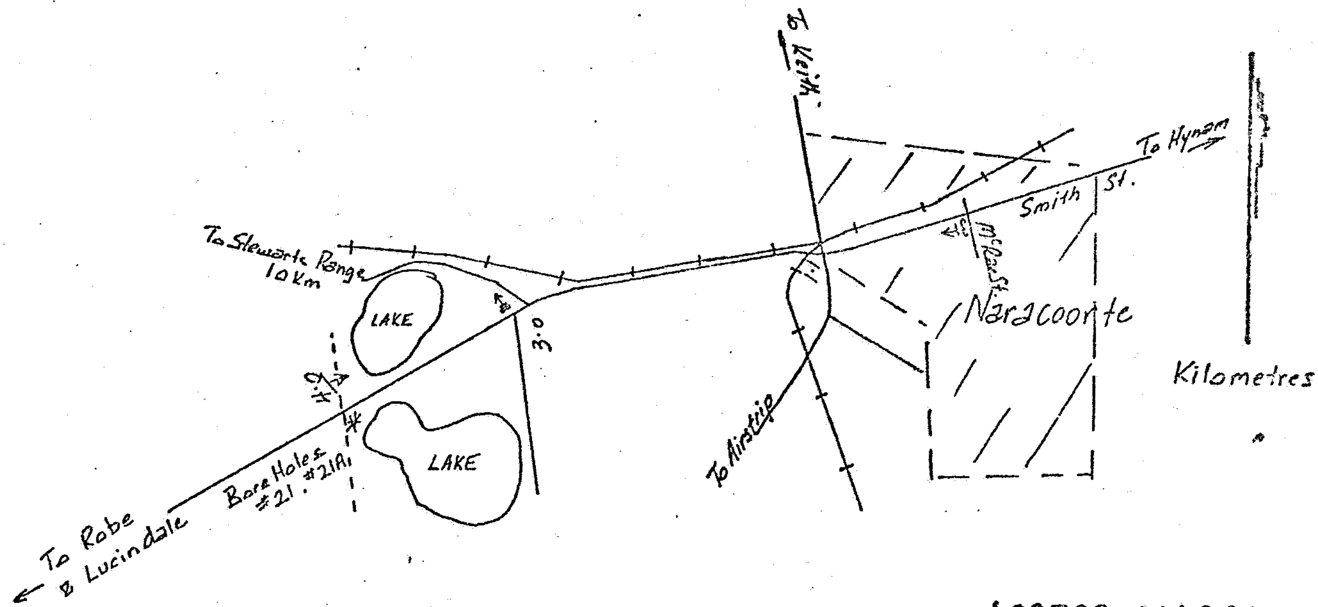
LEVEL BOOK: VOL. P13149 FOLIO 5 SURVEYED BY : Mclatter

FILM:..... PHOTO:..... RUN:..... DATE OF SURVEY: 6-6-75

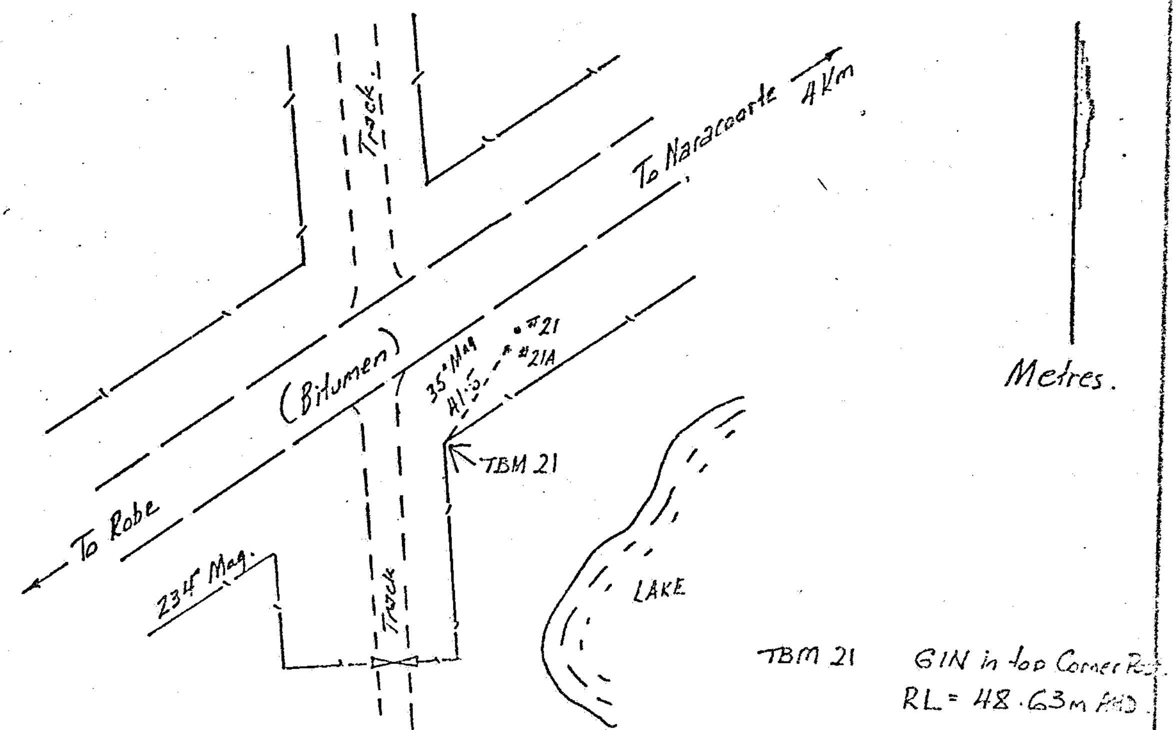
DEPARTMENT OF SERVICES AND PROPERTY

✓ 093

PROJECT ROBE – NARACOORTE COASTAL SURVEY **STN.** Bore Hole #21, #21A



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #21	° ' "	° ' "	473 160 ·	5908 520 ·	47 · 7
	° ' "	° ' "	·	·	·
Bore Hole #21A	° ' "	° ' "	473 160 ·	5908 520 ·	47 · 8
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 1937 R.L. 48.162

FIELD BOOK: VOL. ..... FOLIO ..... GRID AMG Zone 54.

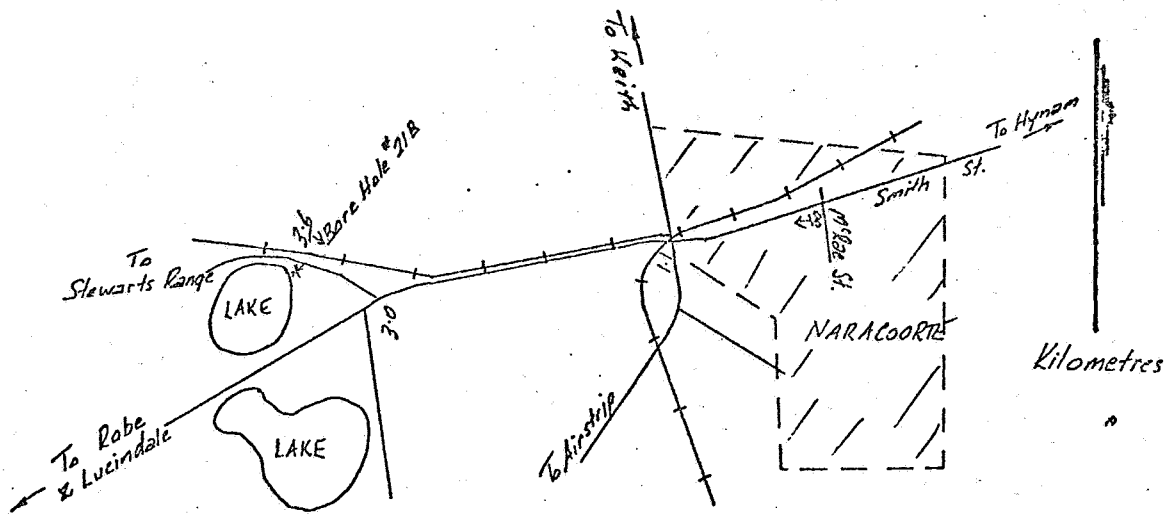
LEVEL BOOK: VOL P13149 FOLIO 8 SURVEYED BY:

FILM: ...... PHOTO: RUN: DATE OF SURVEY:

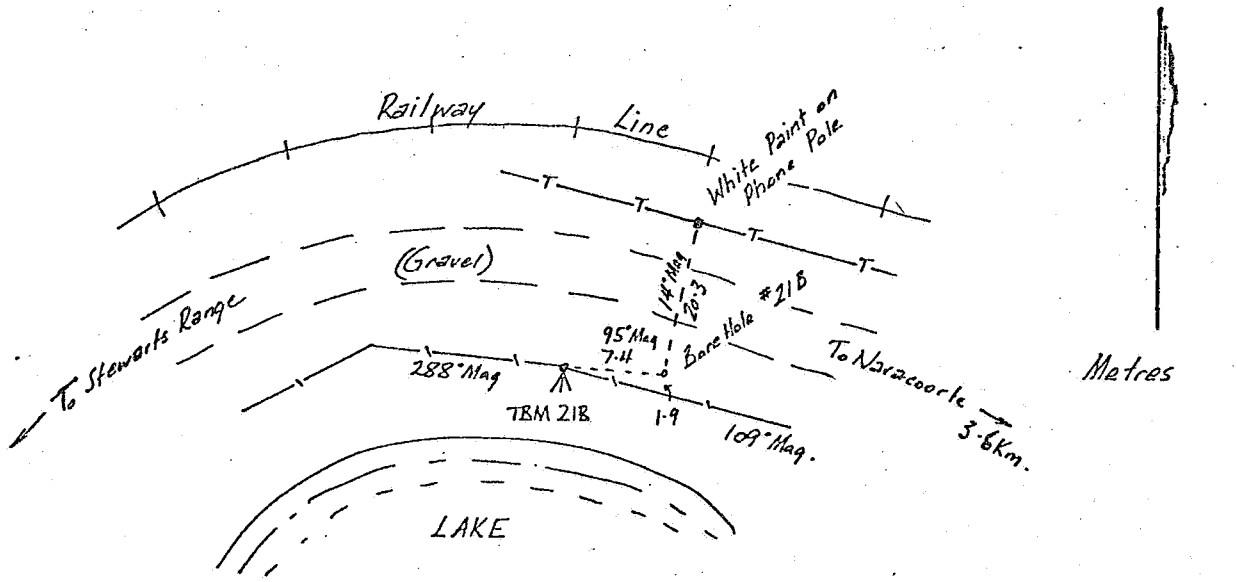
7024 395

DEPARTMENT OF SERVICES AND PROPERTY No LOG 094

PROJECT ROBE – NARACOORTE COASTAL SURVEY STN. Bore Hole #21B



ACCESS DIAGRAM



TBM 21B GIN in top of R.P.
RL = 50·80 m AHD.

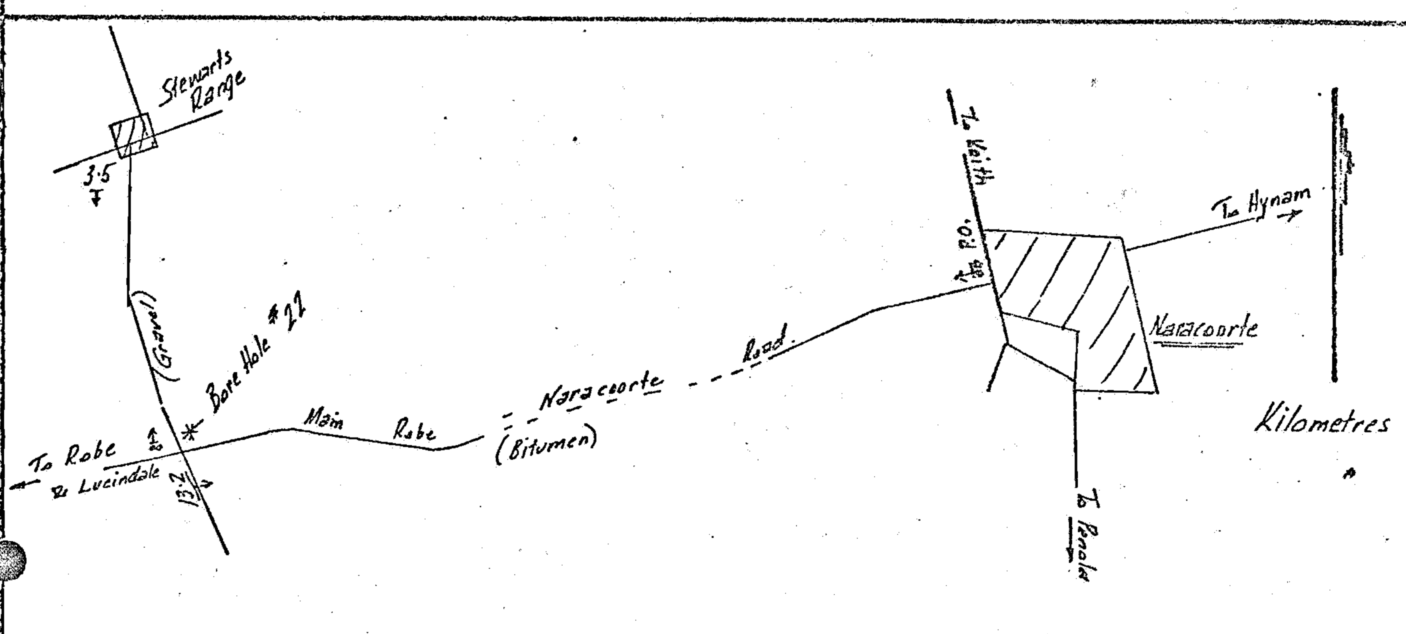
STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #21B	° ' "	° ' "	473500 ·	5709330 ·	49·7
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

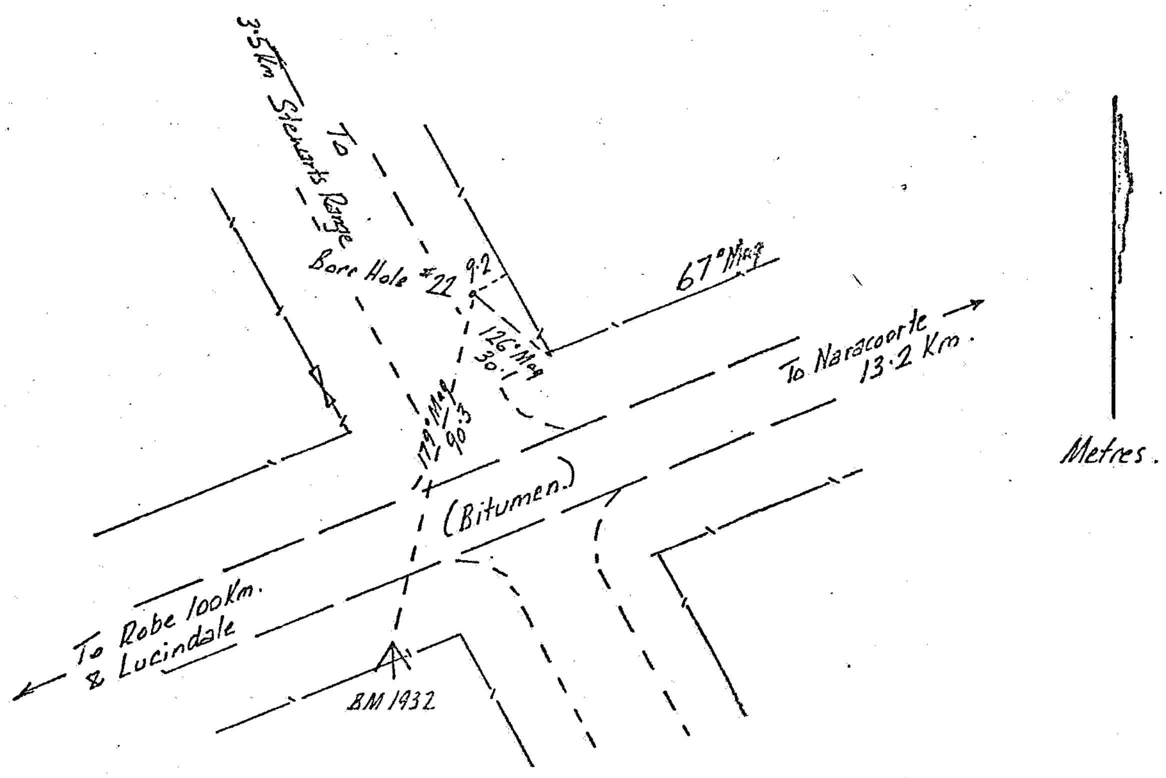
DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 1937 R.L. 48·162
FIELD BOOK : VOL. FOLIO GRID AMG Zone 54.
LEVEL BOOK: VOL P13149 FOLIO 13 SURVEYED BY : [illegible]
FILM: PHOTO: RUN: DATE OF SURVEY: 7-6-75

DEPARTMENT OF SERVICES AND PROPERTY 7024 361 095

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole # 22



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #22	° ′ ″	° ′ ″	464890·	5905610·	48·0
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·

DATUM OF LEVELS: AHD ORIGIN OF LEVELS: BM 1932 R.L. 47·192
FIELD BOOK: VOL. ..... FOLIO ..... GRID AMG Zone 54
LEVEL BOOK: VOL. P13149 FOLIO 4 SURVEYED BY: [signature]
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 6-6-75

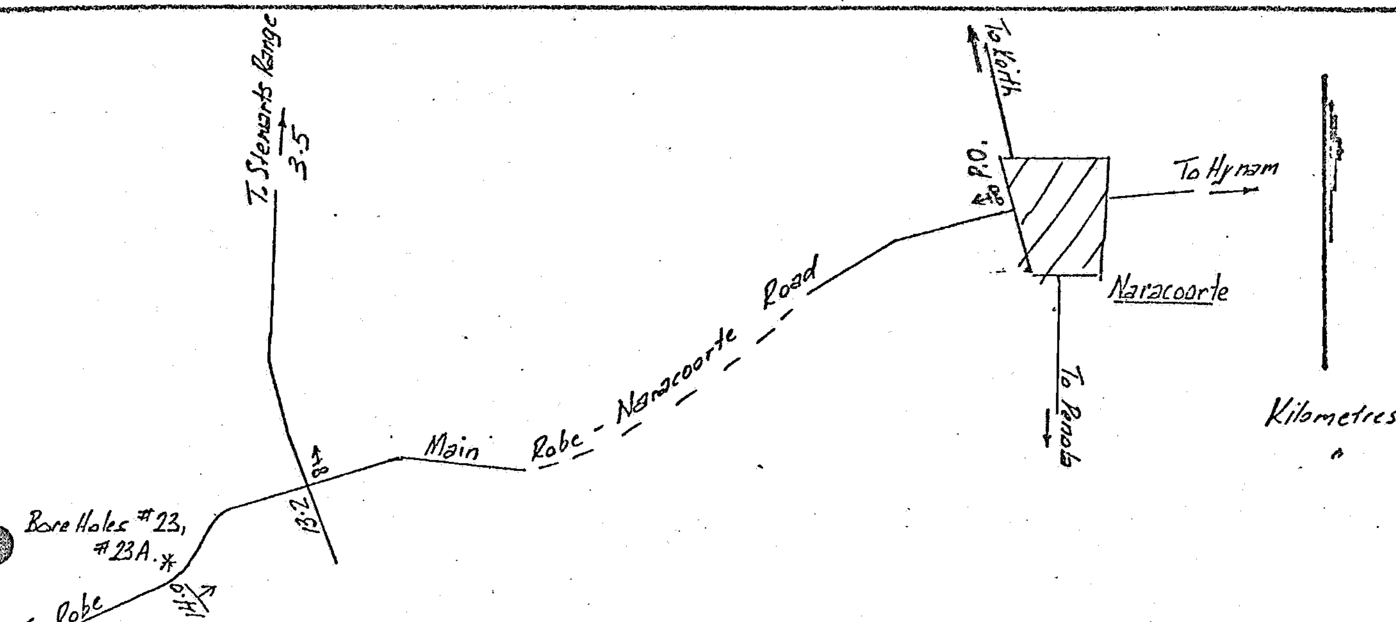
7024 – 354, 355

DEPARTMENT OF SERVICES AND PROPERTY

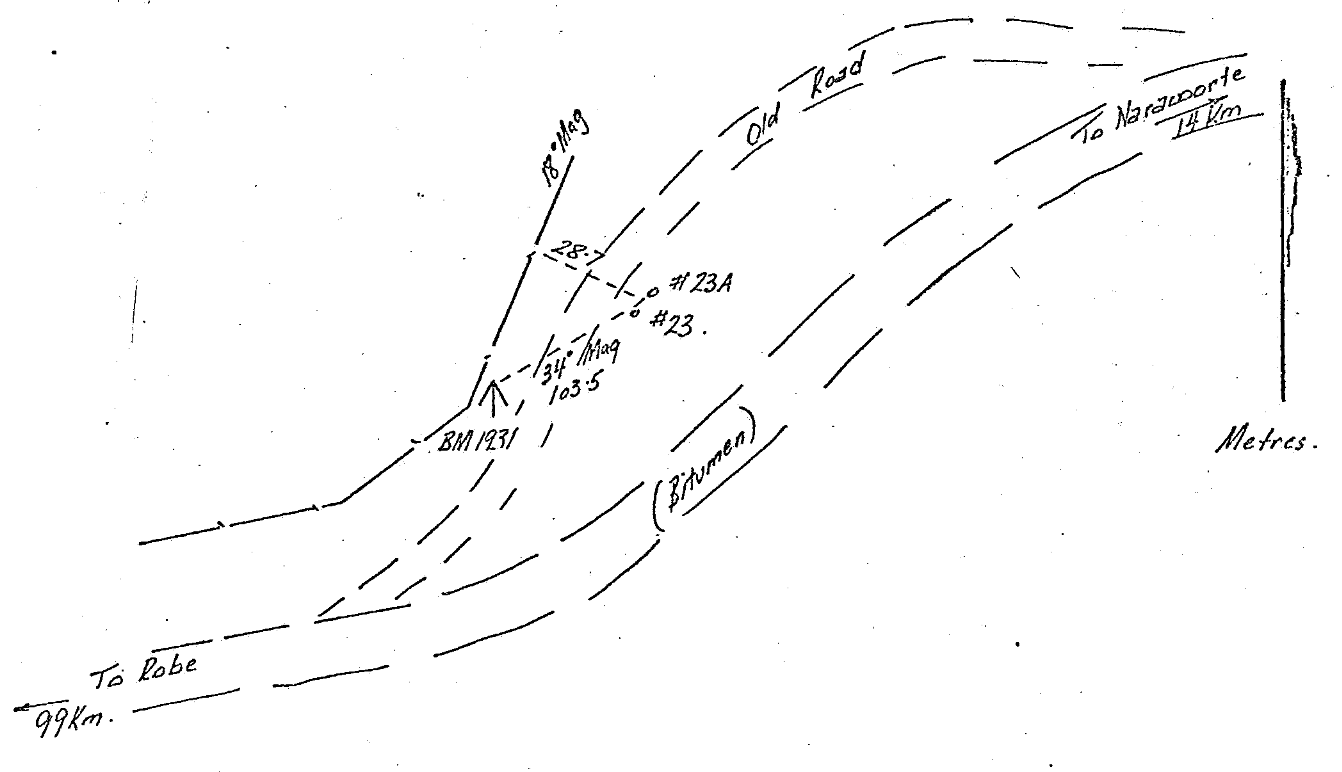
096

PROJECT ROBE – NARACOORTE COASTAL SURVEY STN.

Bore Holes #23, #23A



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #23	° ′ ″	° ′ ″	464100 ·	5905230 ·	43 · 4
	° ′ ″	° ′ ″	·	·	·
Bore Hole #23A.	° ′ ″	° ′ ″	464100 ·	5905230 ·	43 · 3
	° ′ ″	° ′ ″	·	·	·
	° ′ ″	° ′ ″	·	·	·

DATUM OF LEVELS: A.H.D. (m). ORIGIN OF LEVELS: BM 1931 R.L. 43.474

FIELD BOOK: VOL. .... FOLIO .... GRID AMG Zone 54

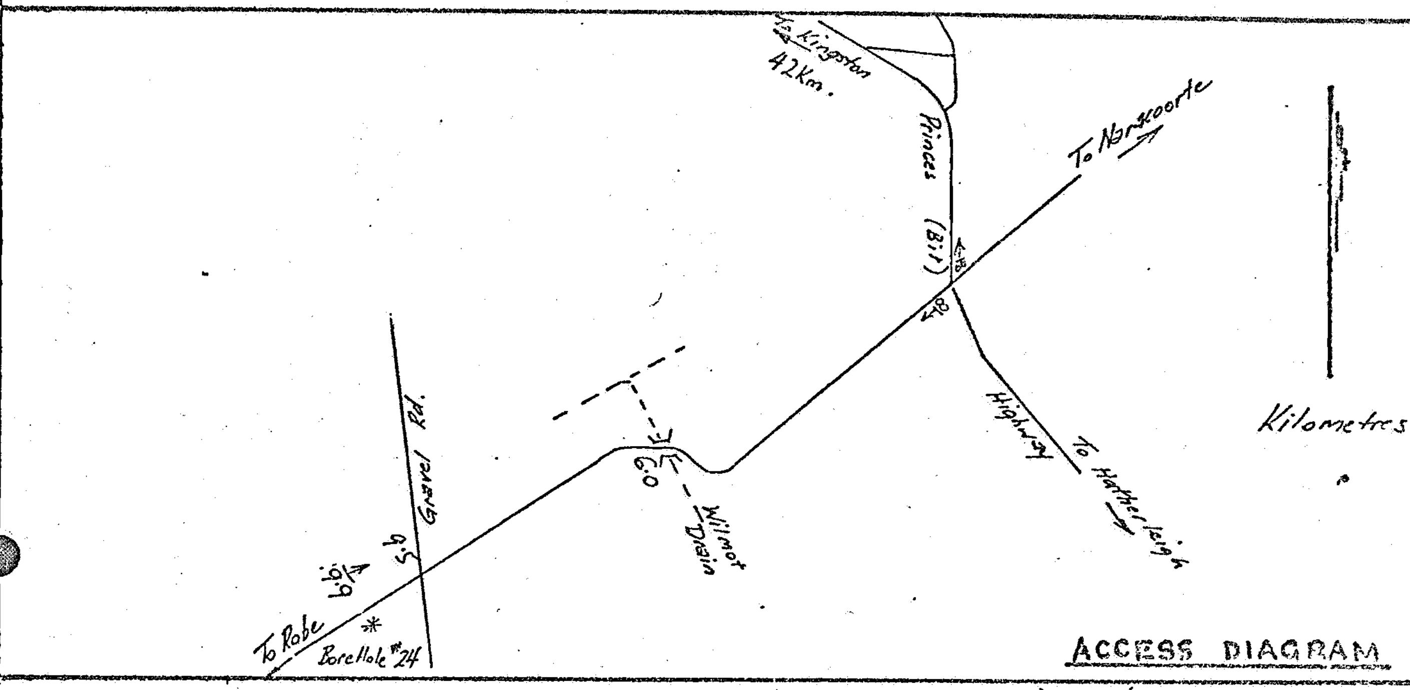
LEVEL BOOK: VOL. P13149 FOLIO 4 SURVEYED BY: [signature]

FILM: ...... PHOTO: ...... RUN: ...... DATE OF SURVEY: 6-6-75

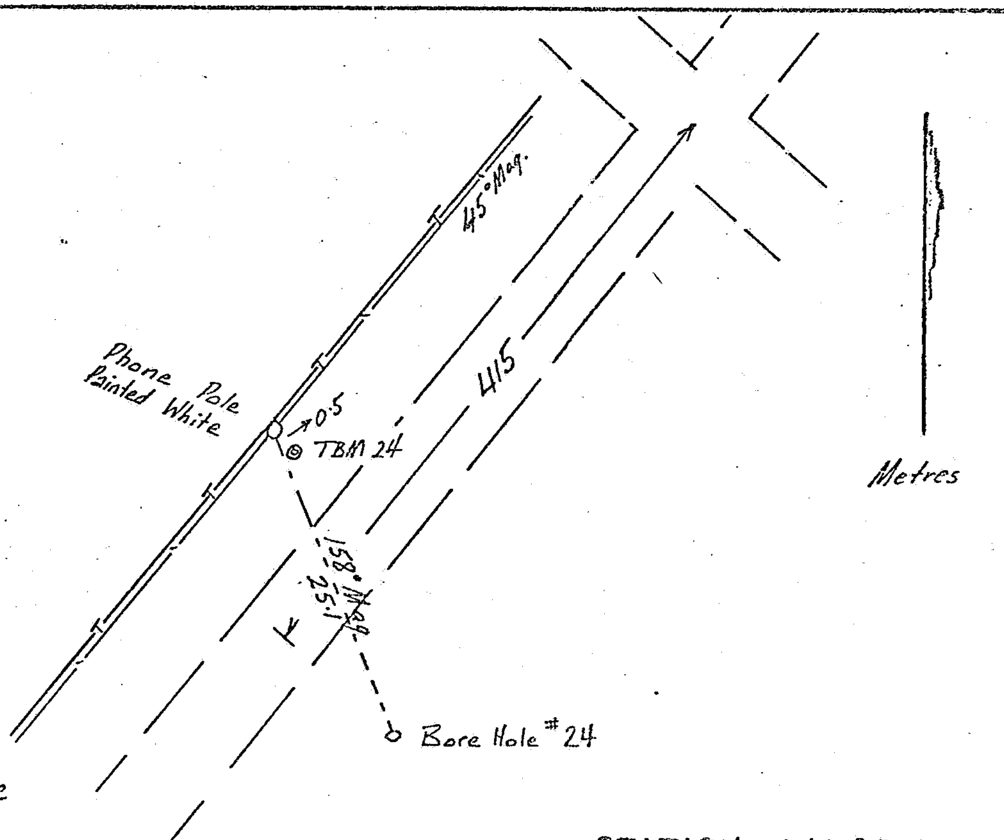
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG. 097

PROJECT ROBE – NARACOORTE COASTAL SURVEY STN. | Bore Hole # 24



ACCESS DIAGRAM



TBM 24 G.I.P at base phone pole
RL= 6.90 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #24	° ′ ″	° ′ ″	410 800 .	5888410 .	7.0
	° ′ ″	° ′ ″	.	.	.
	° ′ ″	° ′ ″	.	.	.
	° ′ ″	° ′ ″	.	.	.
	° ′ ″	° ′ ″	.	.	.
	° ′ ″	° ′ ″	.	.	.

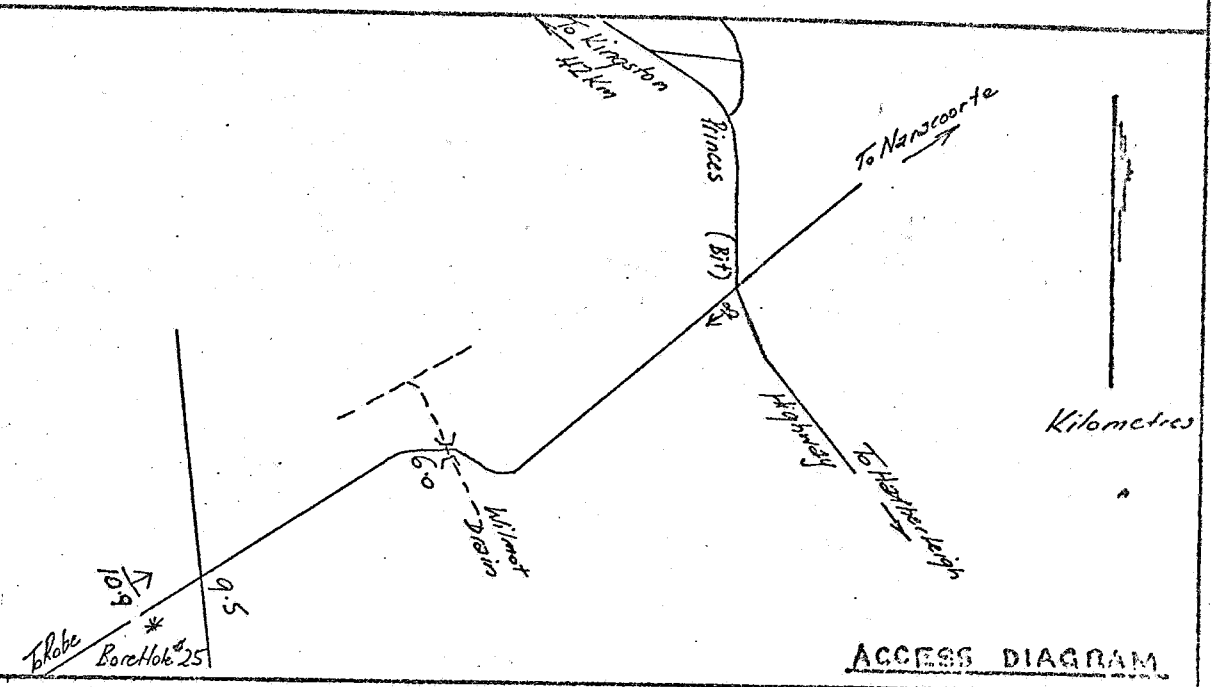
DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 2325 R.L. 8.376
FIELD BOOK: VOL. ..... FOLIO ..... GRID AMG Zone 54
LEVEL BOOK: VOL. P13147 FOLIO 12 SURVEYED BY: [signature]
FILM: PHOTO: RUN: DATE OF SURVEY:

6823-769

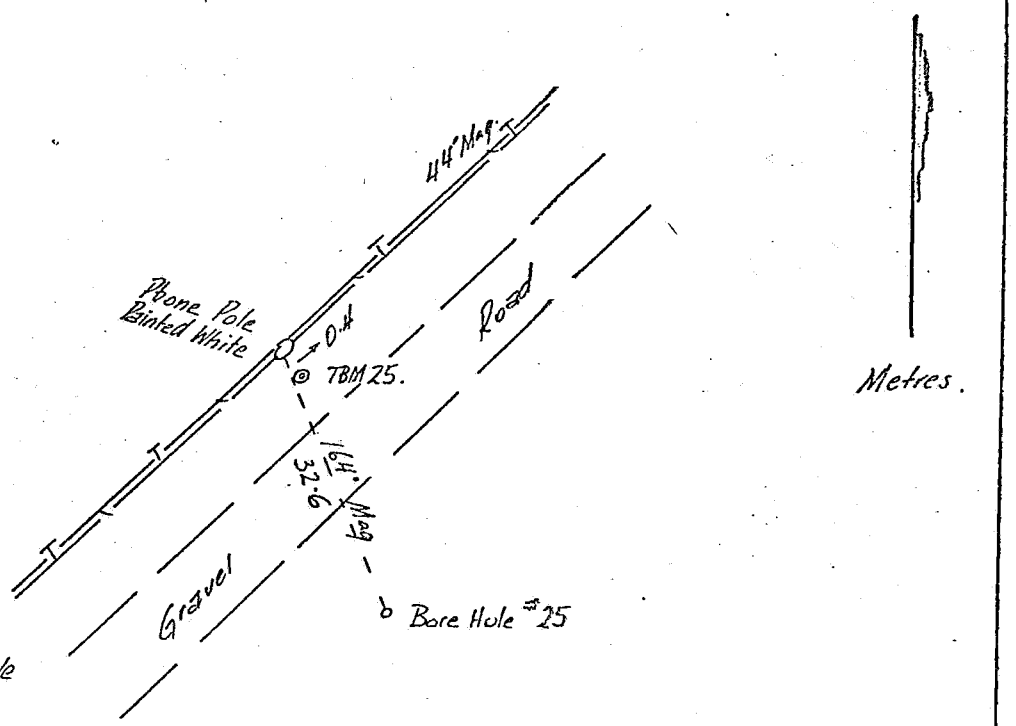
DEPARTMENT OF SERVICES AND PROPERTY

098

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #25



ACCESS DIAGRAM



TBM 25. G.I.P at base phone pole
RL = 6·94 m AHD.

STATION DIAGRAM

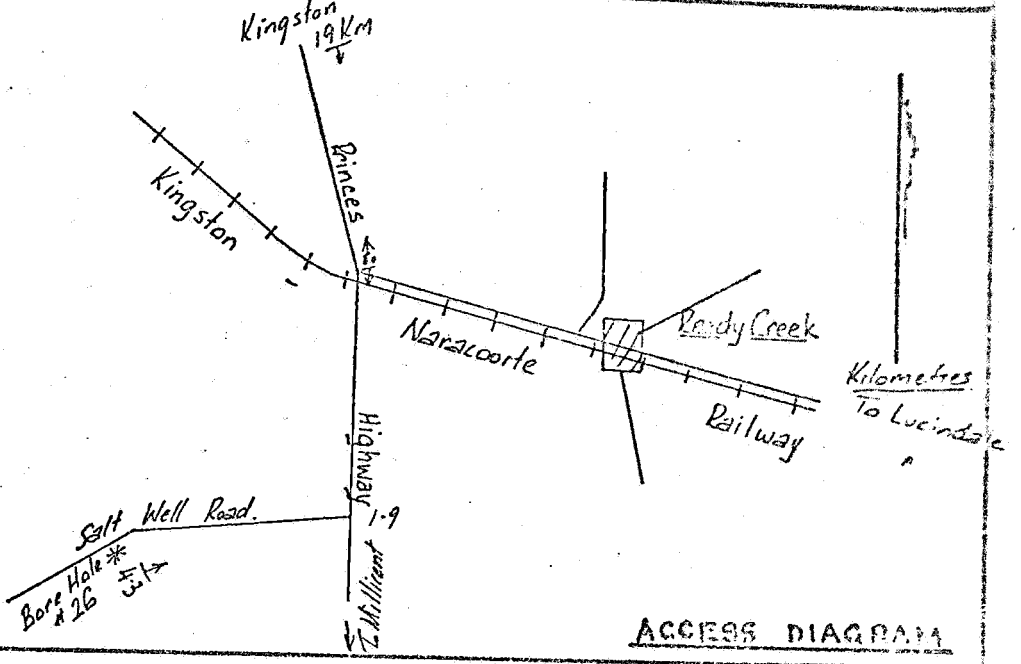
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #25	° ' "	° ' "	410080 ·	5887890 ·	6·9
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 2325 R.L. 8.376
FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54
LEVEL BOOK: VOL. P13147 FOLIO 12 SURVEYED BY : Wilkie
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 27-5-75

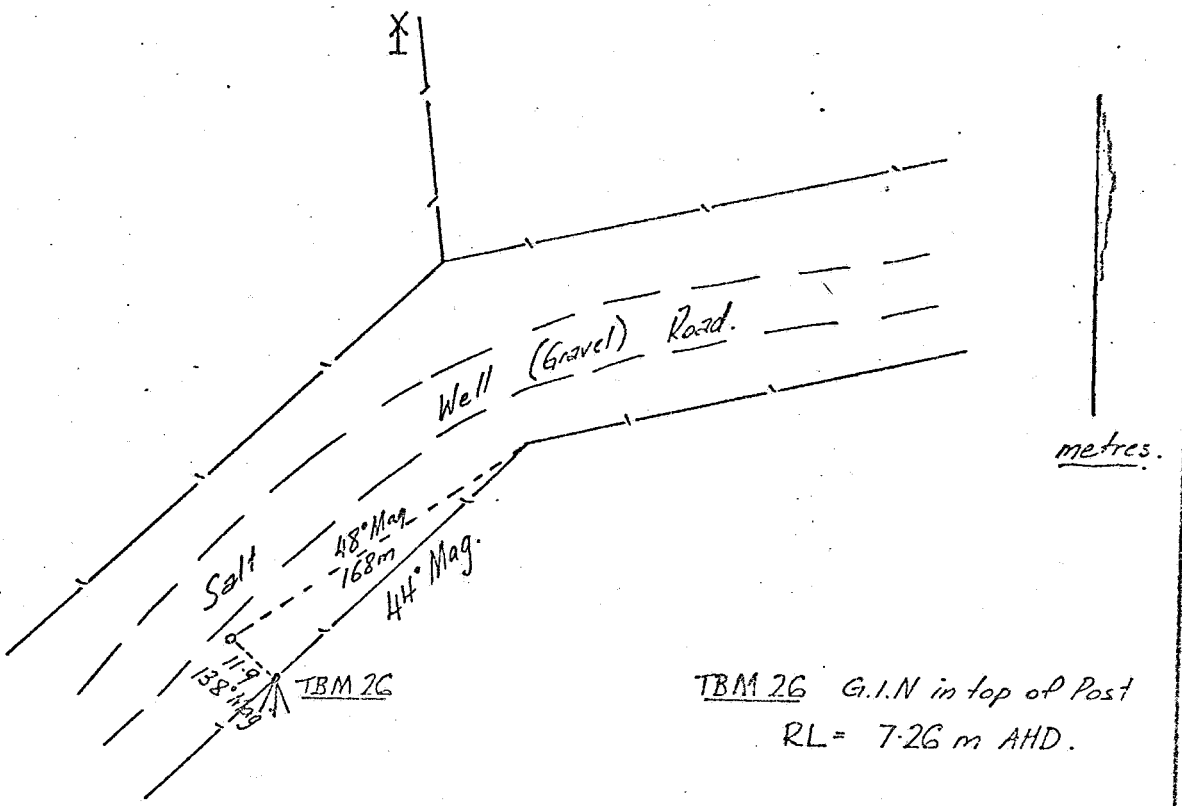
6824 - 427 ?

DEPARTMENT OF SERVICES AND PROPERTY 099

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #26



ACCESS DIAGRAM



TBM 26 G.I.N in top of Post
RL = 7.26 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #26	° ' "	° ' "	409150	5910820	6.1
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

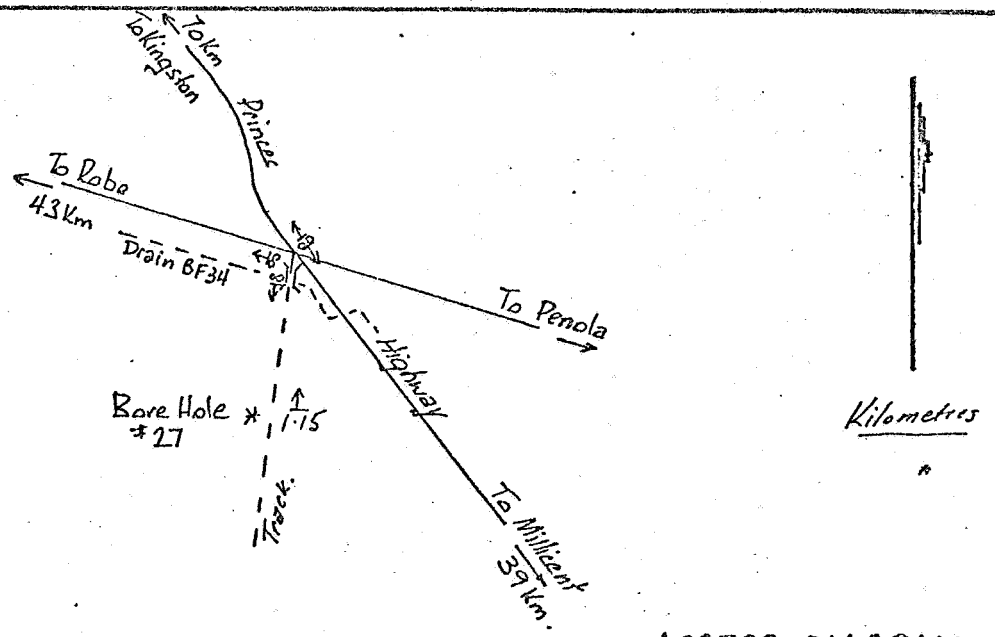
DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1897 RL. 11.164
FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54
LEVEL BOOK: VOL. P13148 FOLIO 1 SURVEYED BY : [illegible]
FILM:..... PHOTO:..... RUN:..... DATE OF SURVEY: 22-5-75

BMR CANBERRA 6923-1426

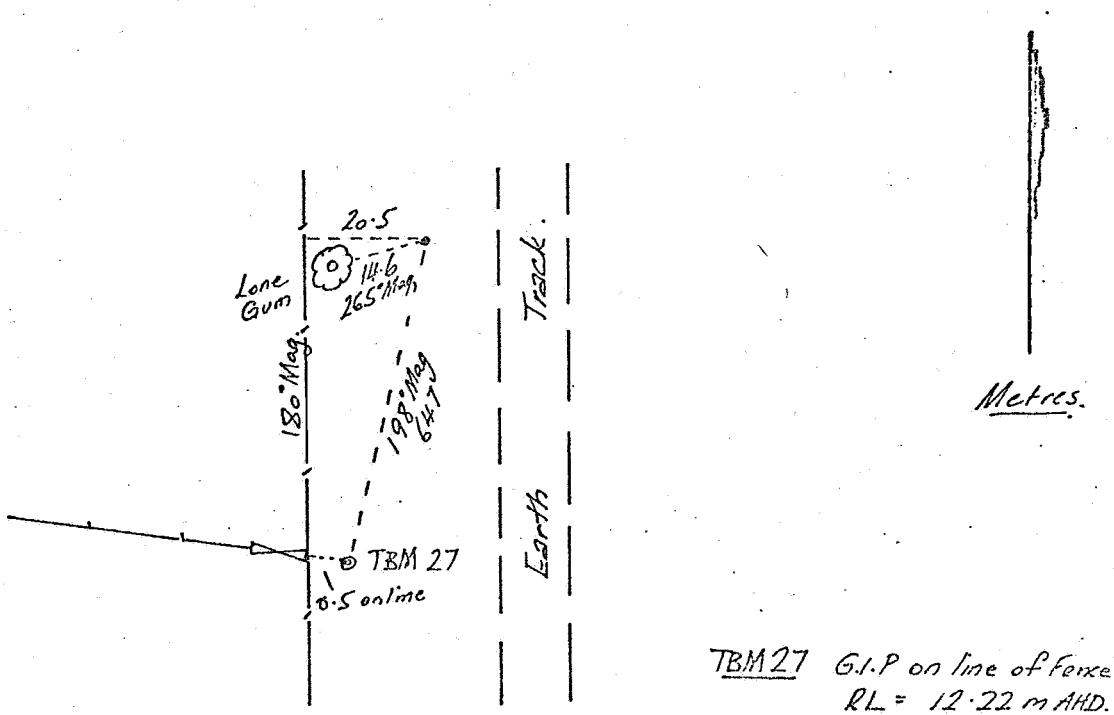
DEPARTMENT OF SERVICES AND PROPERTY

NCO COG. 100

PROJECT ROBE - NARACOORTE COASTAL SURVEY. STN. Bore Hole #27



ACCESS DIAGRAM



TBM 27 G.I.P on line of Fence
RL = 12·22 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #27	° ' "	° ' "	424900 ·	5868360 ·	12·2
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 2266 R.L. 12·683

FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54

LEVEL BOOK: VOL P13147 FOLIO 20 SURVEYED BY : Walker

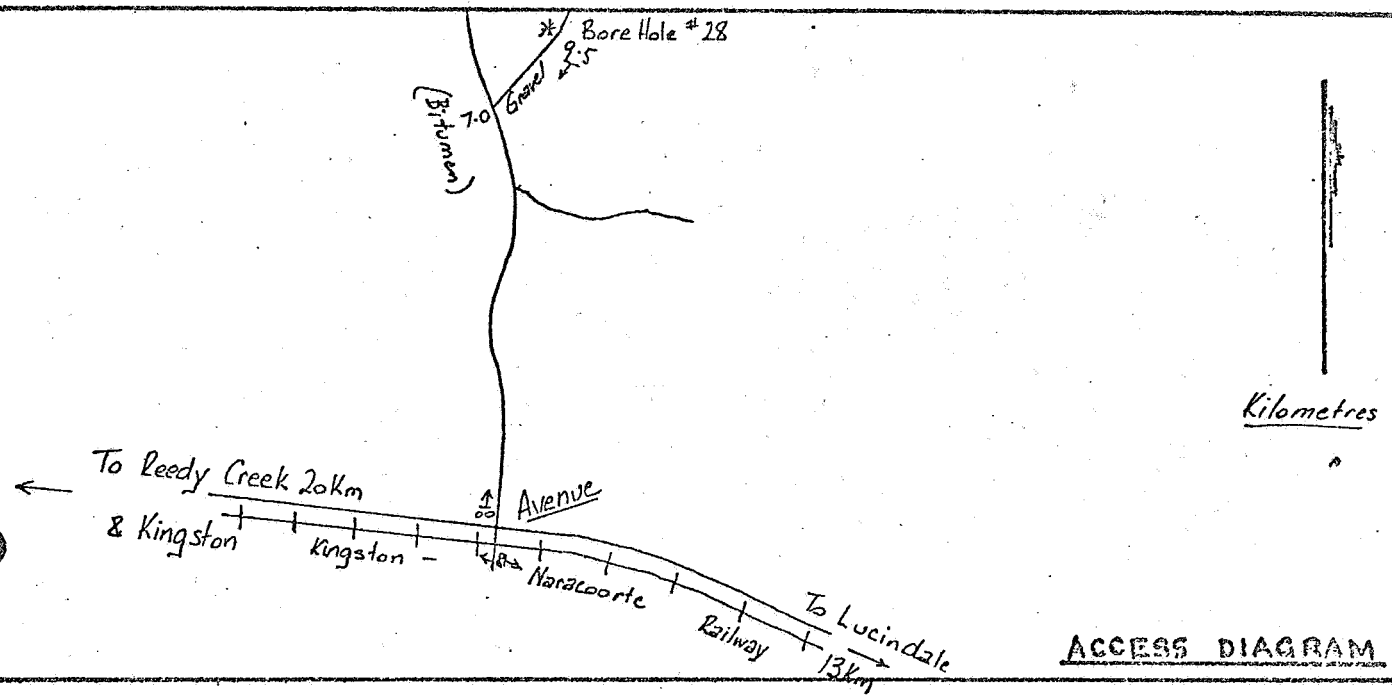
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 28-5-75.

6924 1245?

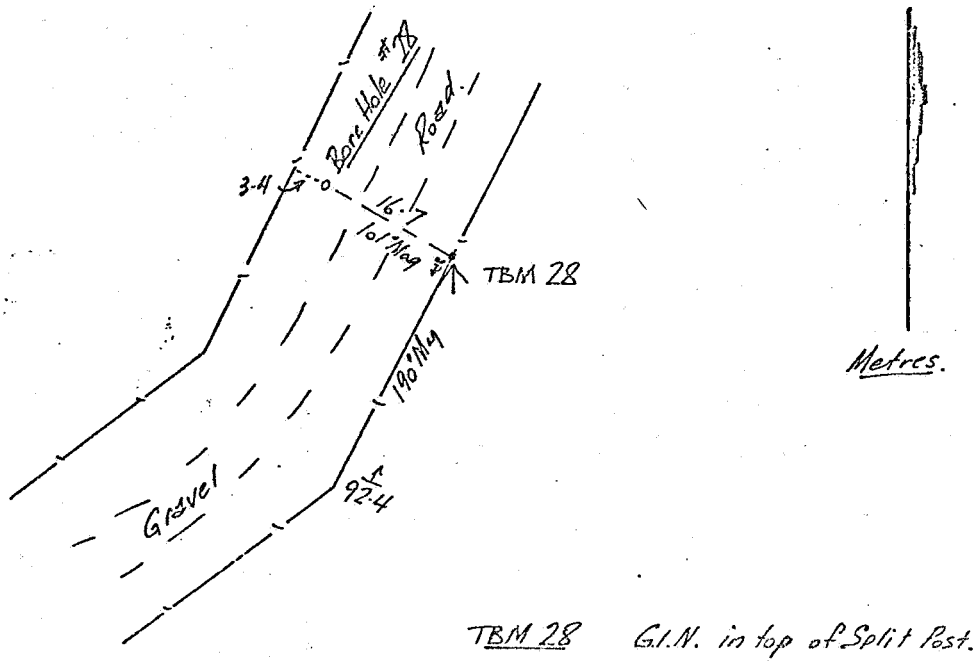
DEPARTMENT OF SERVICES AND PROPERTY

NO COG. 101

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #28



ACCESS DIAGRAM



TBM 28 G.I.N. in top of Split Post.
RL = 35.43 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #28	° ' "	° ' "	431 520·	5919 610·	33·9
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

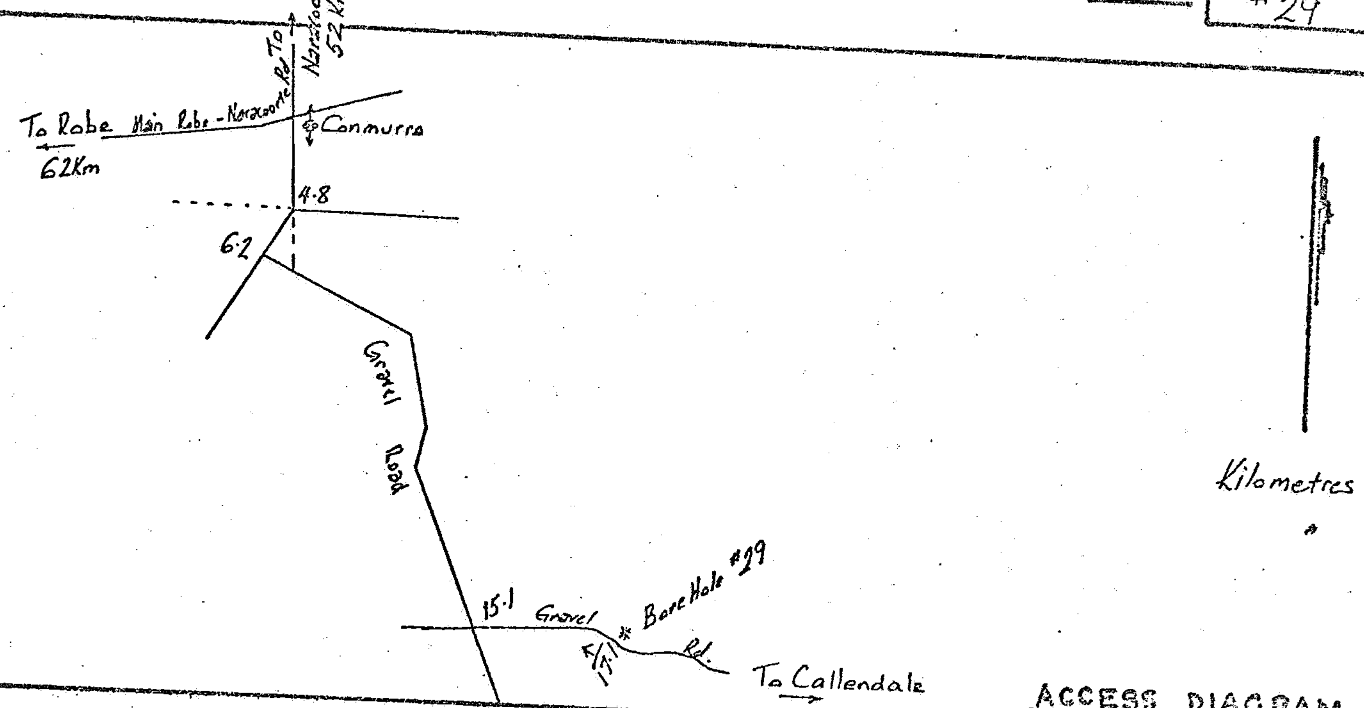
DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1909 R.L. 22.616.
FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54 .....
LEVEL BOOK: VOL. P13148 FOLIO 8 ... SURVEYED BY : DWalter ...
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 29-5-75

BMR [illegible] 6923 -1420

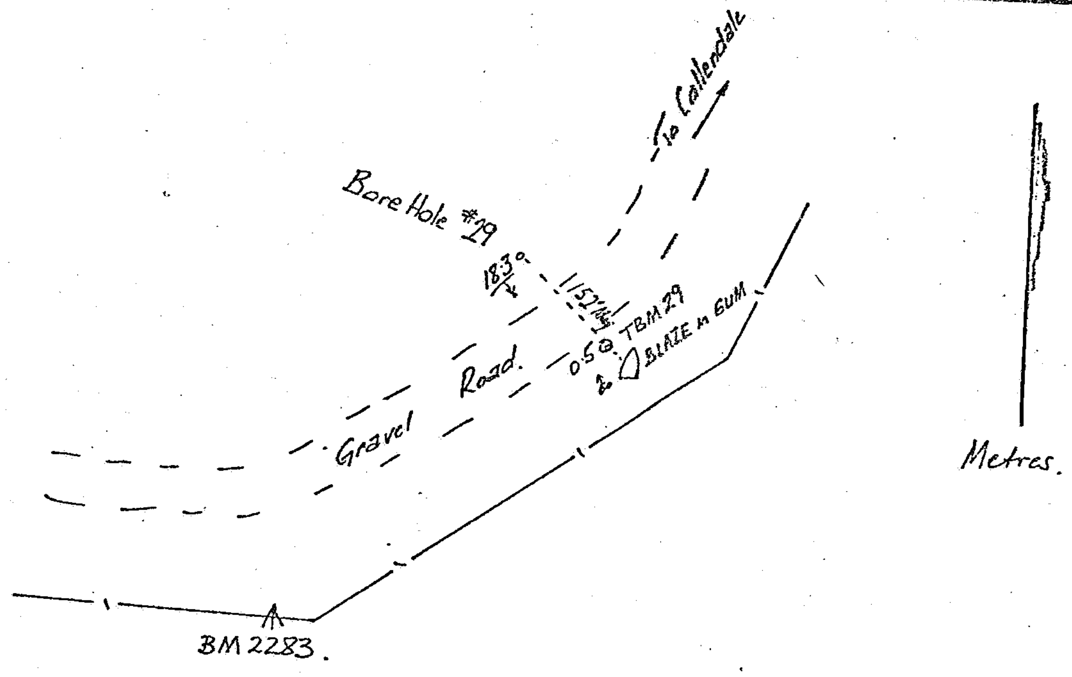
NO LOG. 102

DEPARTMENT OF SERVICES AND PROPERTY

PROJECT Robe - Naracoorte Coastal Survey **STN.** Bore Hole #29



ACCESS DIAGRAM



TBM 29 G.I.P. 0·5m from blazed tree

RL = 50·263 . m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #29	° ′ ″	° ′ ″	443 260·	5877 120·	49·4

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 2283 R.L. 47·154

FIELD BOOK: VOL. ...... FOLIO ...... GRID AMG Zone 54.

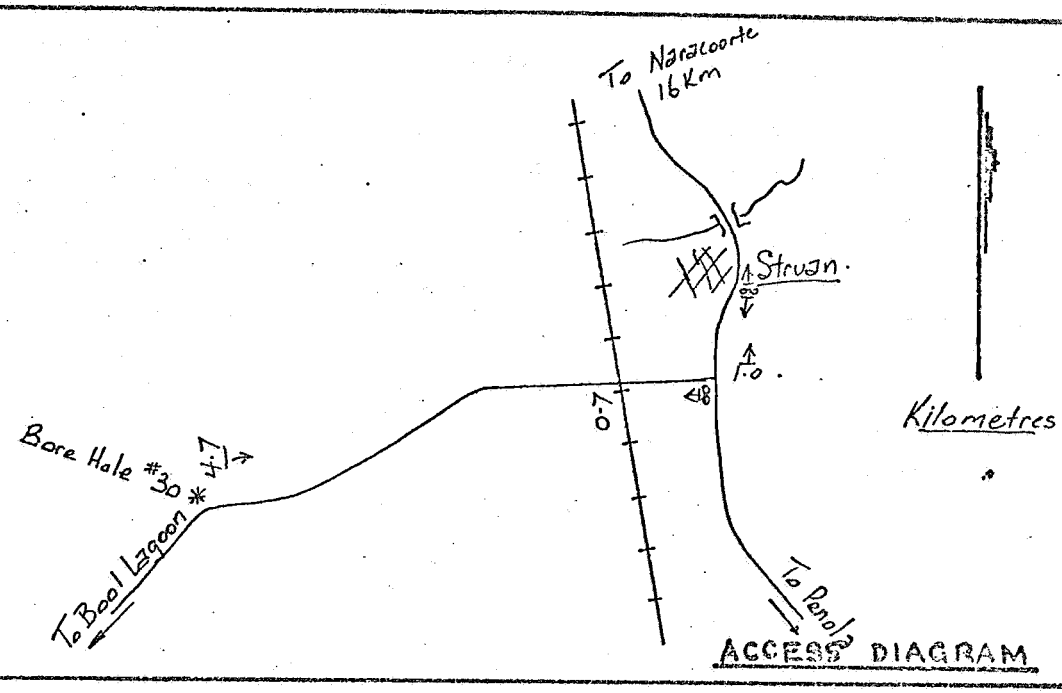
LEVEL BOOK: VOL. P13147 FOLIO 21 .. SURVEYED BY: [signature]

FILM: ...... PHOTO: ...... RUN: ...... DATE OF SURVEY: 28-5-75

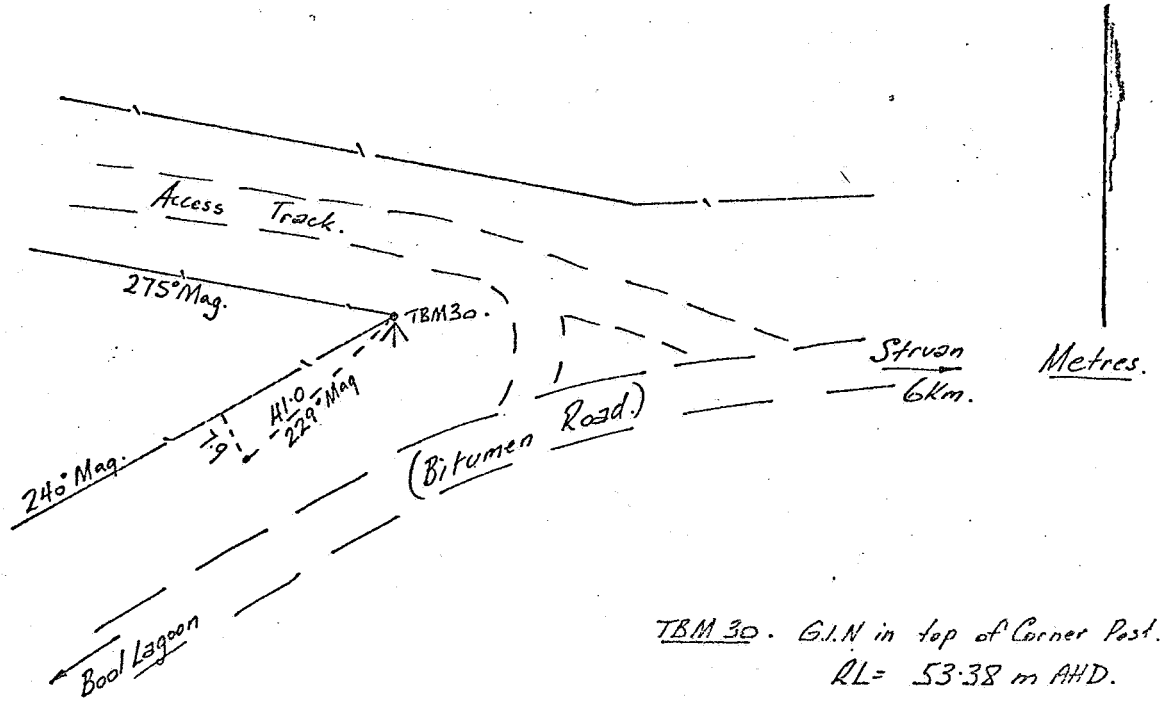
DEPARTMENT OF SERVICES AND PROPERTY

NO NO LOG. 103

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #30



ACCESS DIAGRAM



TBM 30. G.I.N in top of Corner Post.
RL= 53·38 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #30	° ' "	° ' "	477100 ·	5891910 ·	51·8
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 3M227 (DNM) R.L. 52·521

FIELD BOOK : VOL K113/59 FOLIO 17 GRID AMG Zone 54

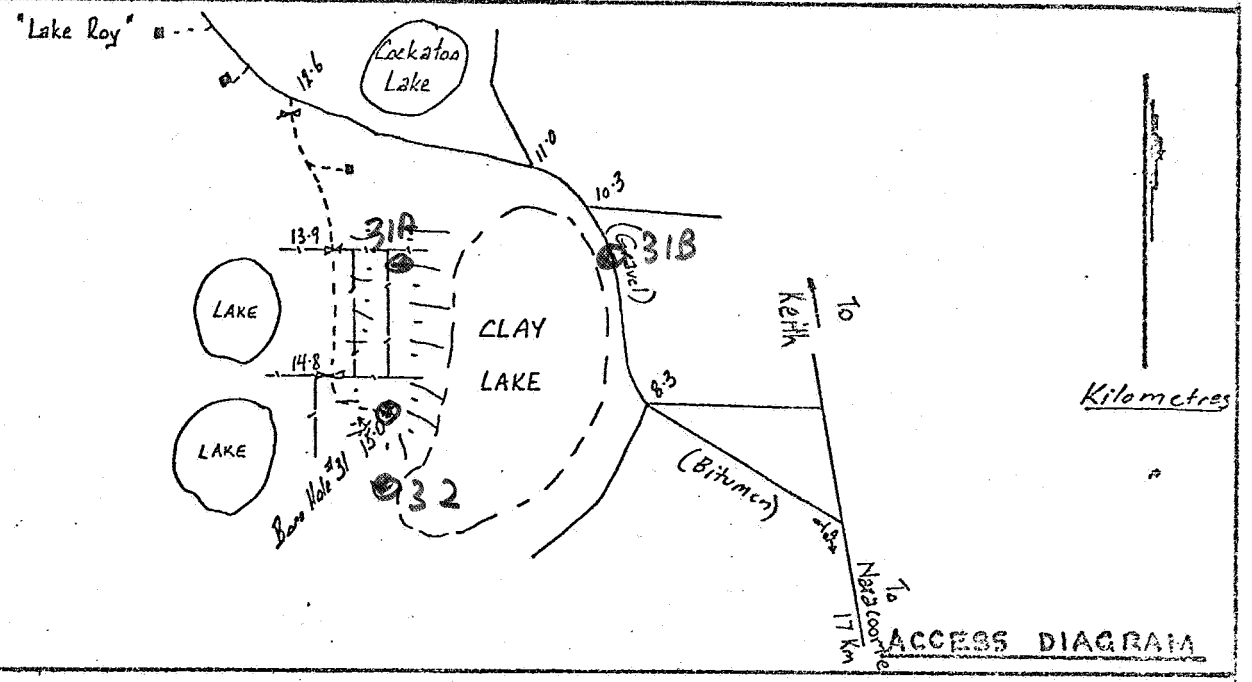
LEVEL BOOK: VOL P13/50 FOLIO 26 SURVEYED BY : DH Lattler

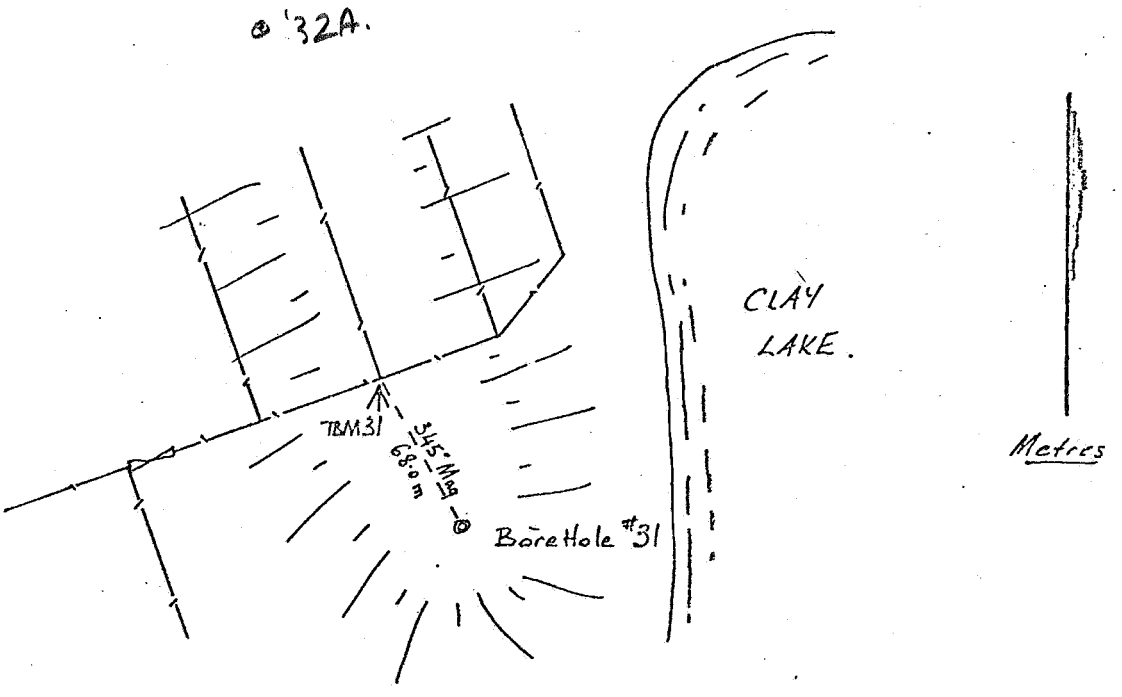
FILM: PHOTO: RUN: DATE OF SURVEY: 16-6-75

2024-252

DEPARTMENT OF SERVICES AND PROPERTY No LOG 104

PROJECT ROBE - NARACOORTE COASTAL SURVEY. STN. Bore Hole #31





TBM 31 G.I.N in top of Post.
RL = 54·09 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #31	° ' "	° ' "	461880·	5930290·	52·6
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

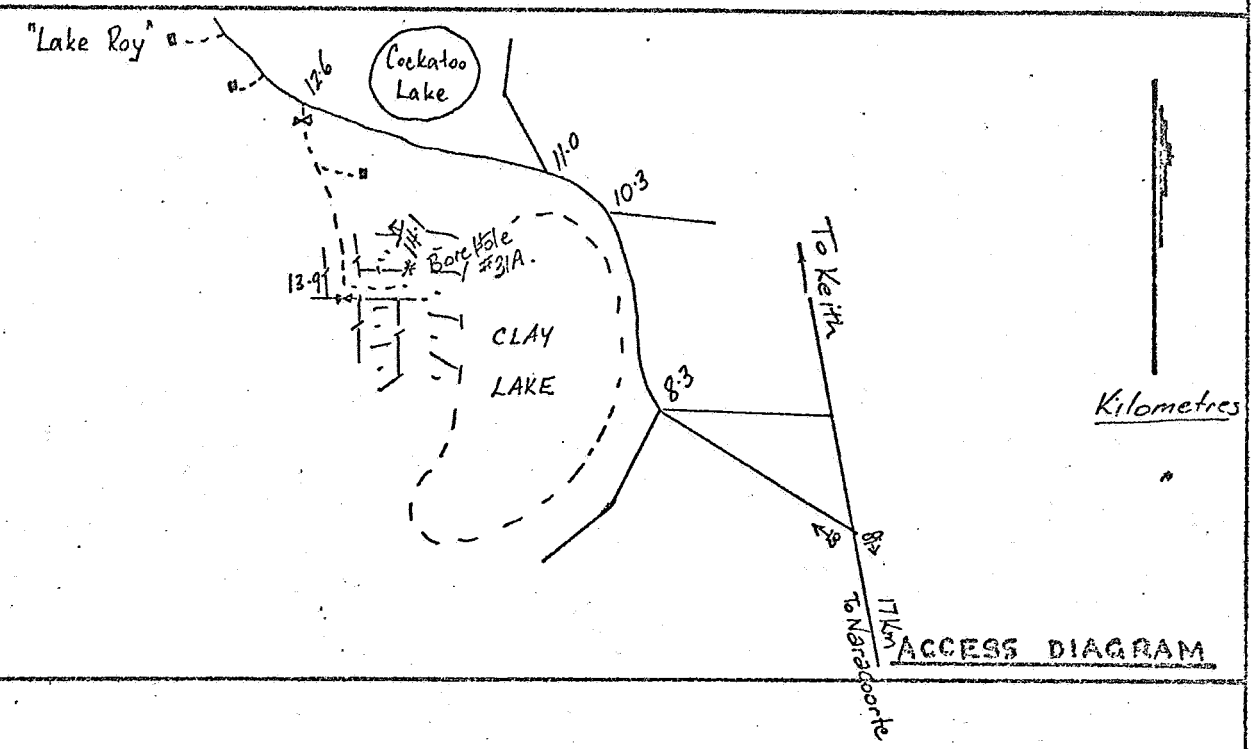
DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: SM 1966 RL. 42·747
FIELD BOOK : VOL. K 11359 FOLIO 2 GRID AMG Zone 54
LEVEL BOOK: VOL. P 13148 FOLIO 17 SURVEYED BY : K Schutter
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 3-6-75

7024 251

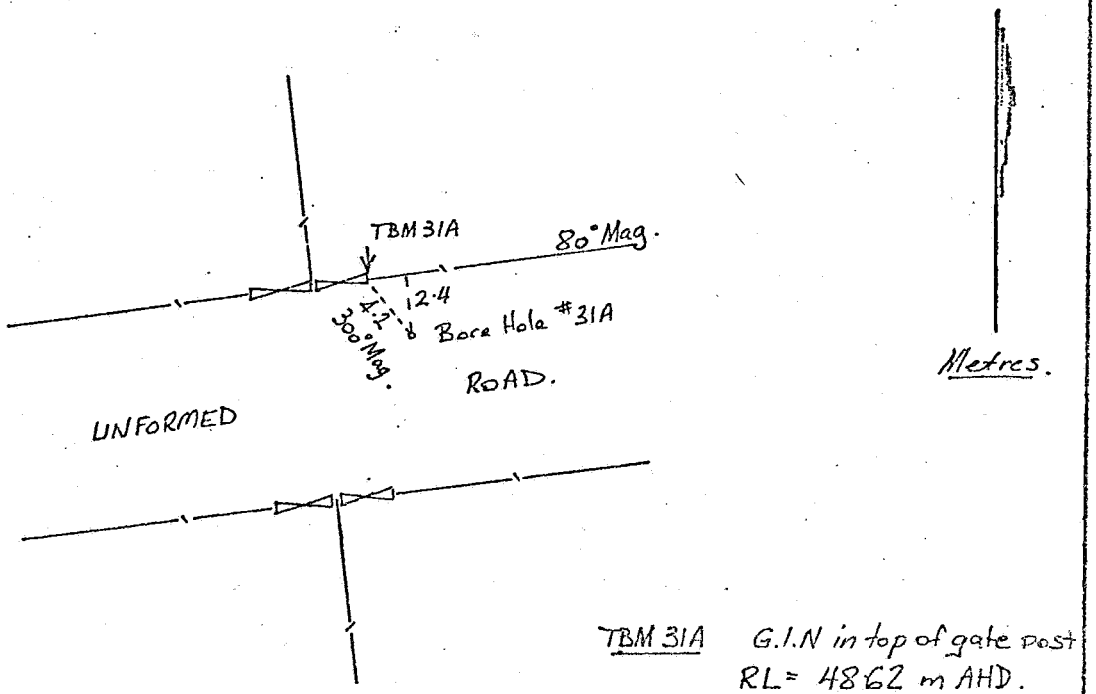
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG. 105

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #31A



ACCESS DIAGRAM



TBM 31A G.I.N in top of gate post
RL = 48·62 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #31A.	° ' "	° ' "	461930·	5931280·	47·5
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM1966 RL. 42·747

FIELD BOOK : VOL. K11359 FOLIO 2 GRID AMG Zone 54

LEVEL BOOK: VOL. P13148 FOLIO 16 SURVEYED BY : [illegible]

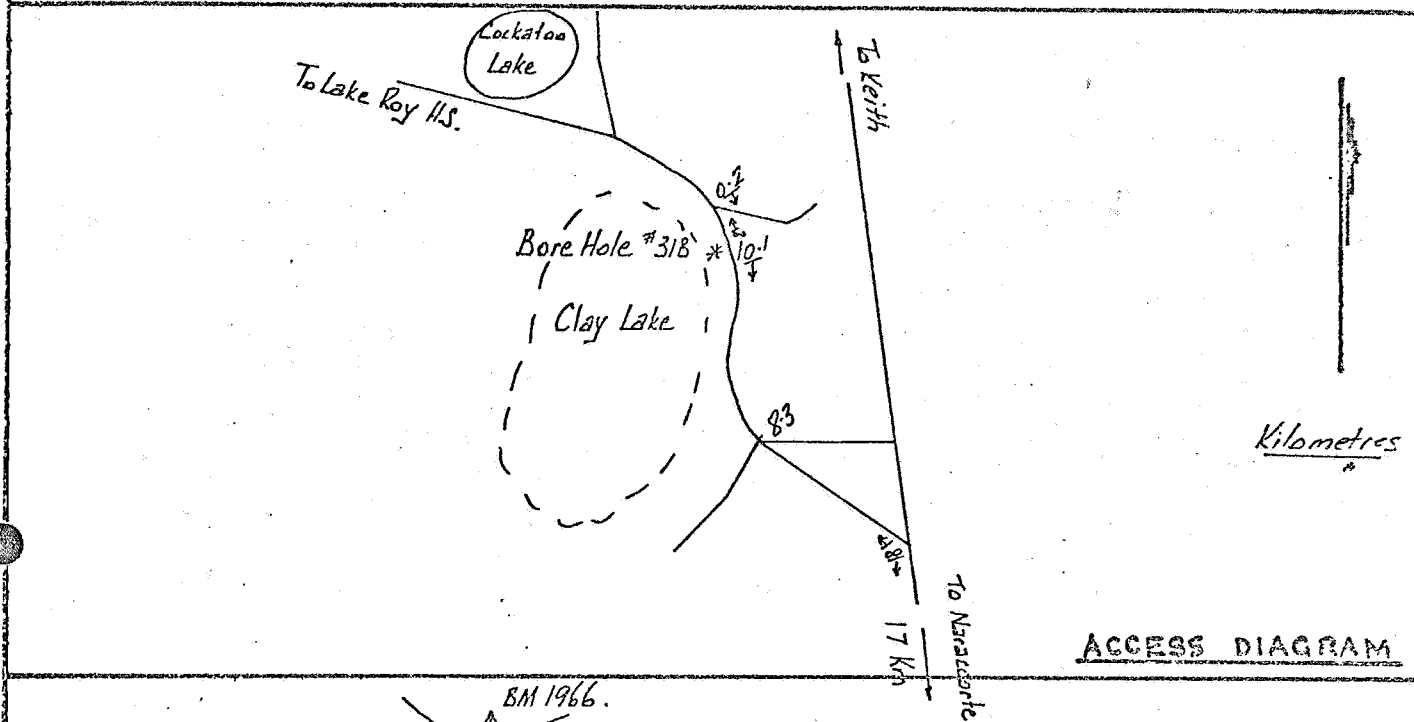
FILM: PHOTO: RUN: DATE OF SURVEY: 3-6-75

7024 253

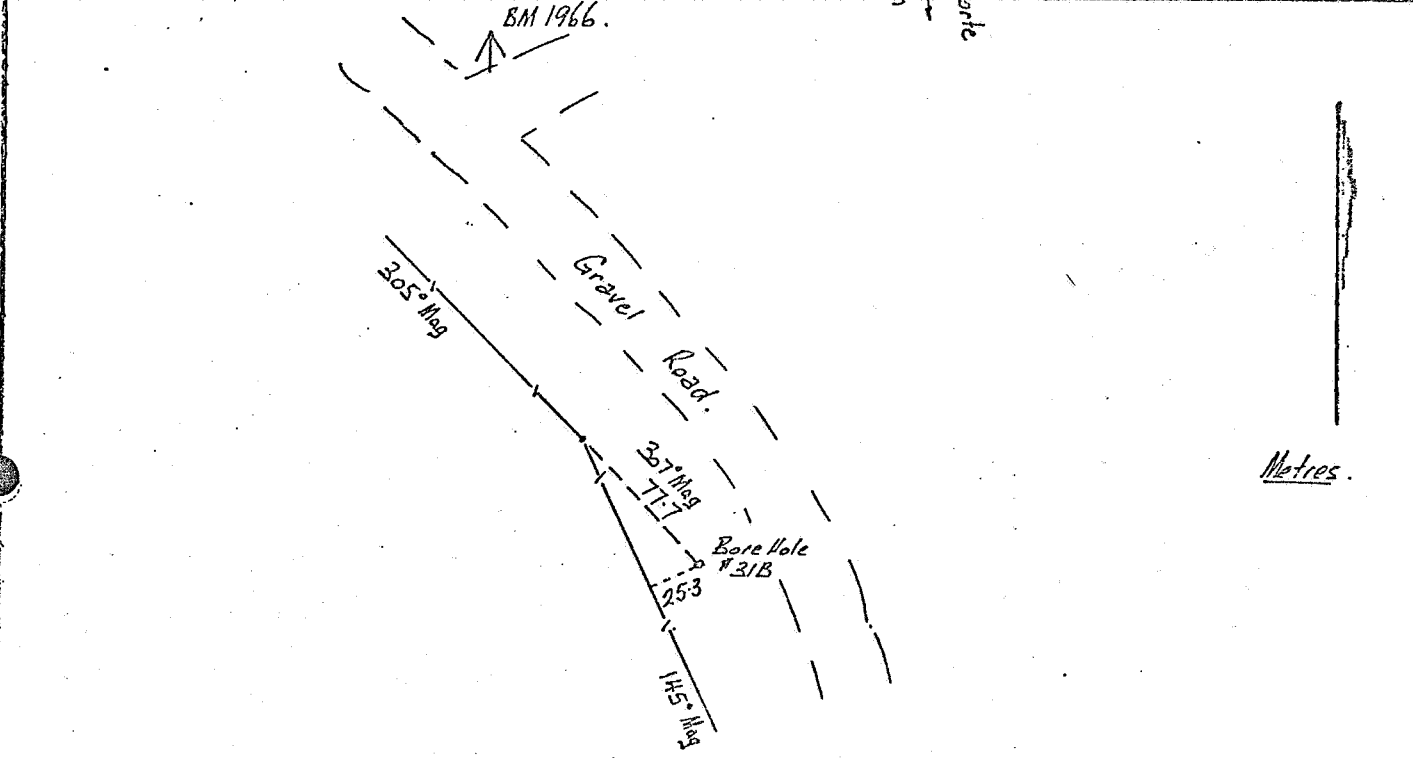
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG 106

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #318



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #318	° ' "	° ' "	463400.	5931090.	41.0
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1966 R.L. 42.747

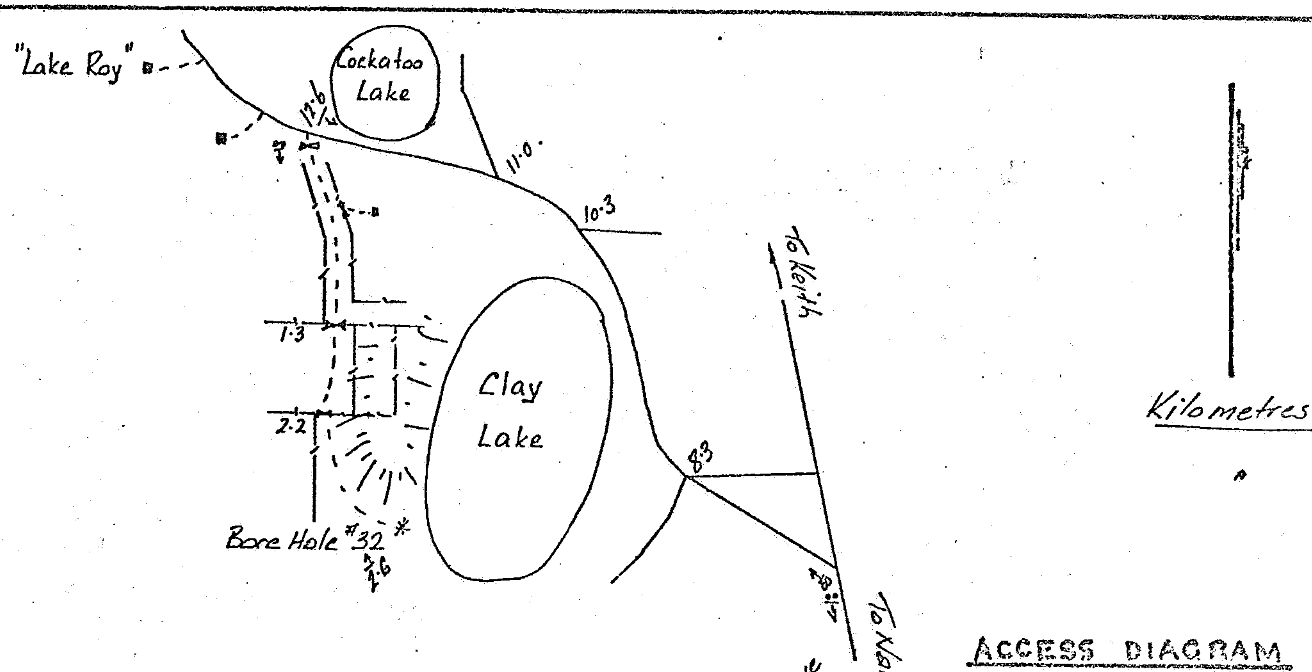
FIELD BOOK : VOL. K11359 FOLIO 6 GRID AMG Zone 54

LEVEL BOOK: VOL. P13148 FOLIO 14 SURVEYED BY : Whittle

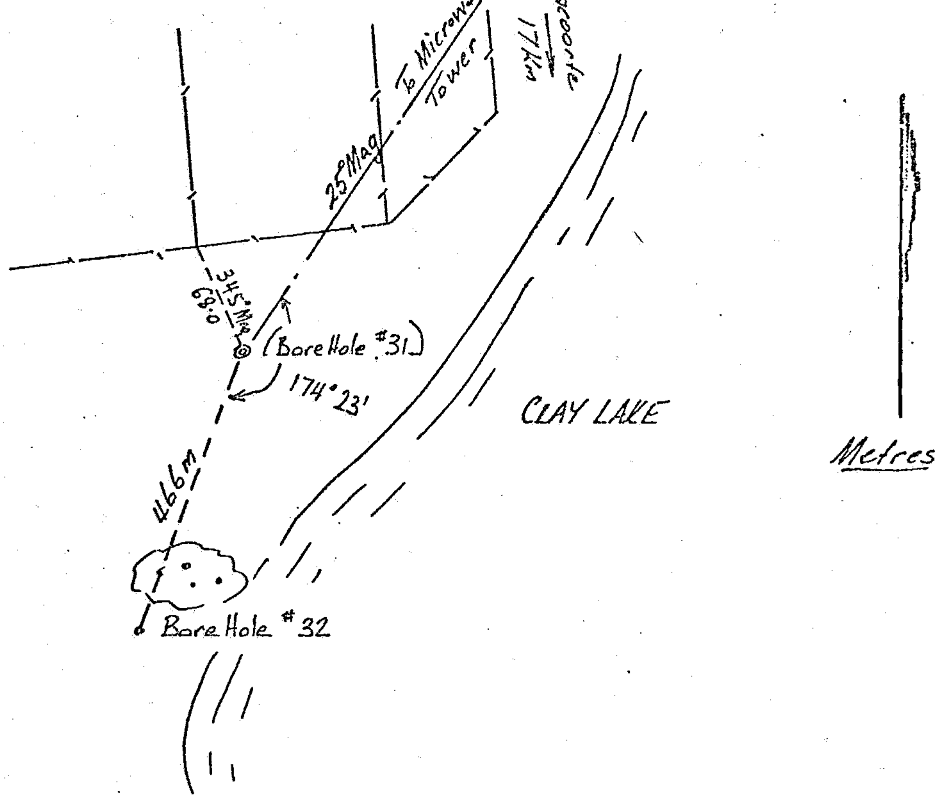
FILM: PHOTO: RUN: DATE OF SURVEY: 3-6-75

DEPARTMENT OF SERVICES AND PROPERTY — NO LOG. 107

PROJECT ROBE - NARACOORTE COASTAL SURVEY — STN. Bore Hole #32



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #32	° ' "	° ' "	461670·	5929870·	37·0
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1966 R.L. 42·747

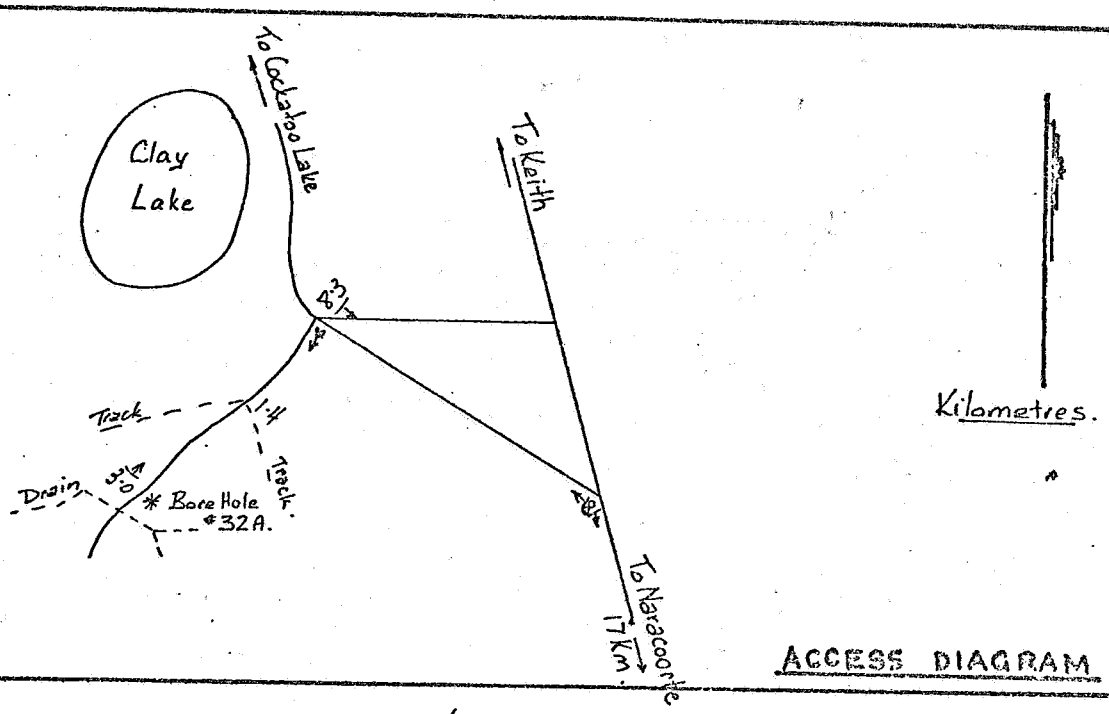
FIELD BOOK: VOL K 11359 FOLIO 2 GRID AMG Zone 54.

LEVEL BOOK: VOL P 13148 FOLIO 17 SURVEYED BY: [signature]

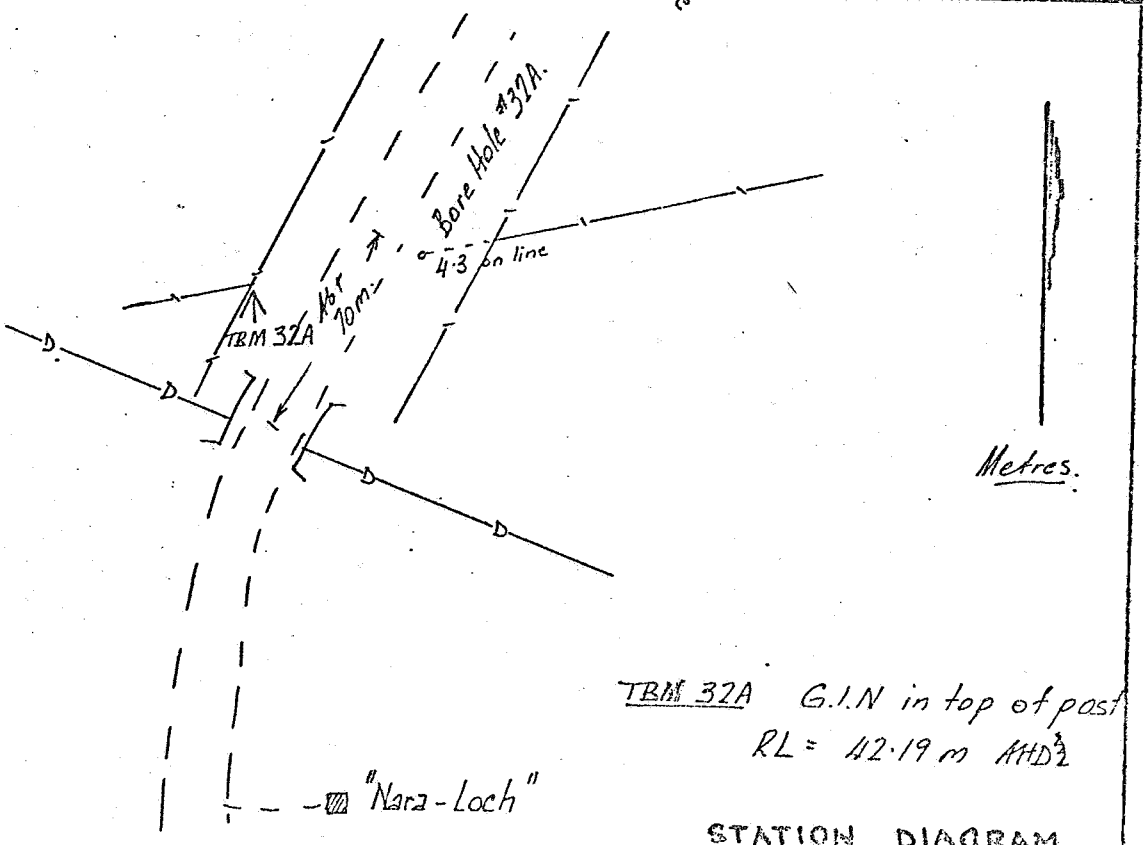
DEPARTMENT OF SERVICES AND PROPERTY

NO 108
NO LOG.

PROJECT ROBE - NARACOORTE COASTAL SURVEY STN. Bore Hole #32A



ACCESS DIAGRAM



TBM 32A G.I.N in top of post
RL = 42·19 m AHD

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #32A	° ' "	° ' "	461900·	5926940·	40·8
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1969 R.L. 41·787
FIELD BOOK : VOL..... FOLIO..... GRID AMG Zone 54
LEVEL BOOK: VOL. P13150 FOLIO 8 SURVEYED BY : J. Miller
FILM:..... PHOTO:..... RUN:..... DATE OF SURVEY: 13-6-75

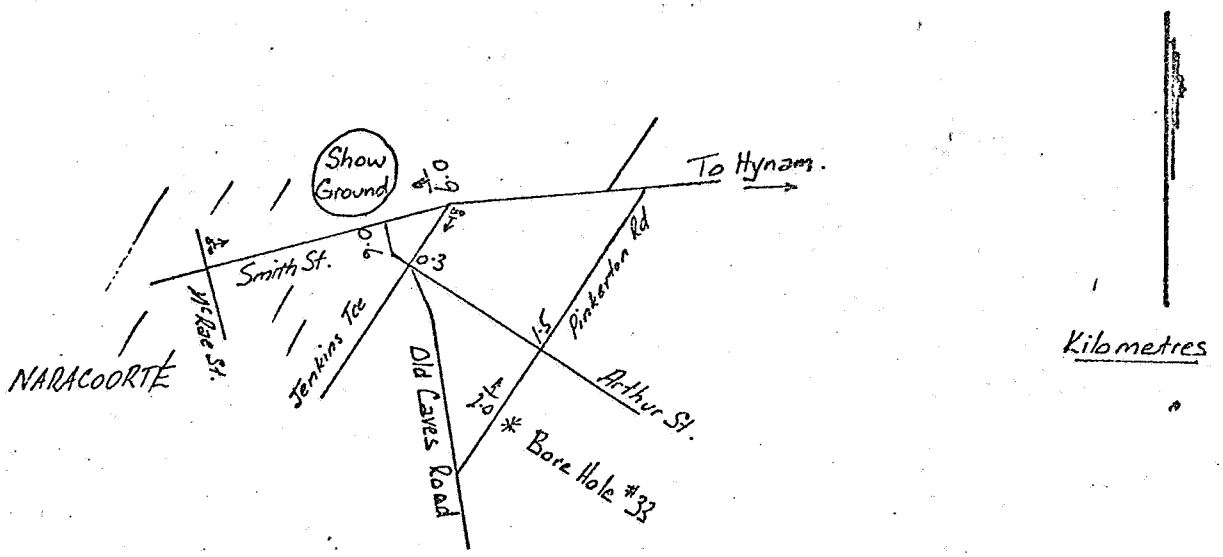
7024 1719

DEPARTMENT OF SERVICES AND PROPERTY

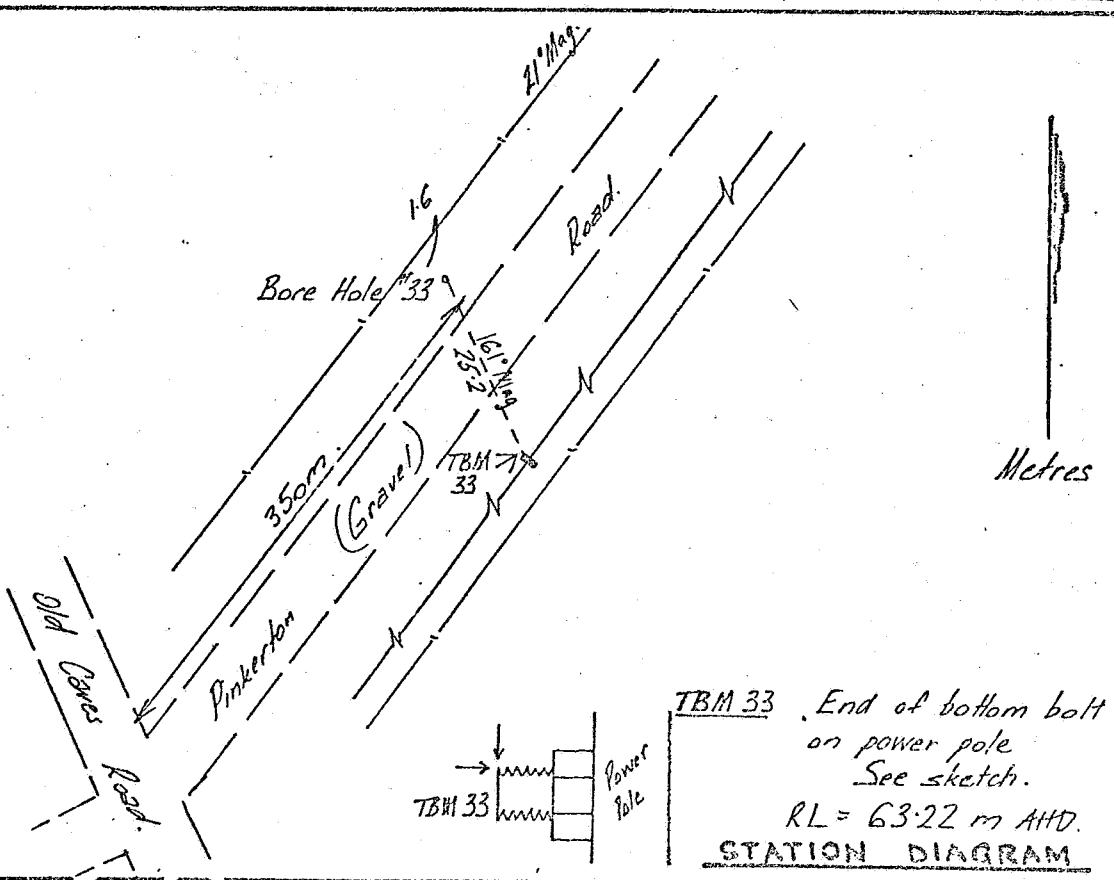
109

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #33



ACCESS DIAGRAM



TBM 33. End of bottom bolt on power pole See sketch.
RL = 63·22 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #33	° ' "	° ' "	478290 ·	5908680 ·	63·0
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 1940 R.L. 66·857

FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG. Zone 54.

LEVEL BOOK : VOL. P13118,9 FOLIO ..... SURVEYED BY : G. Walter

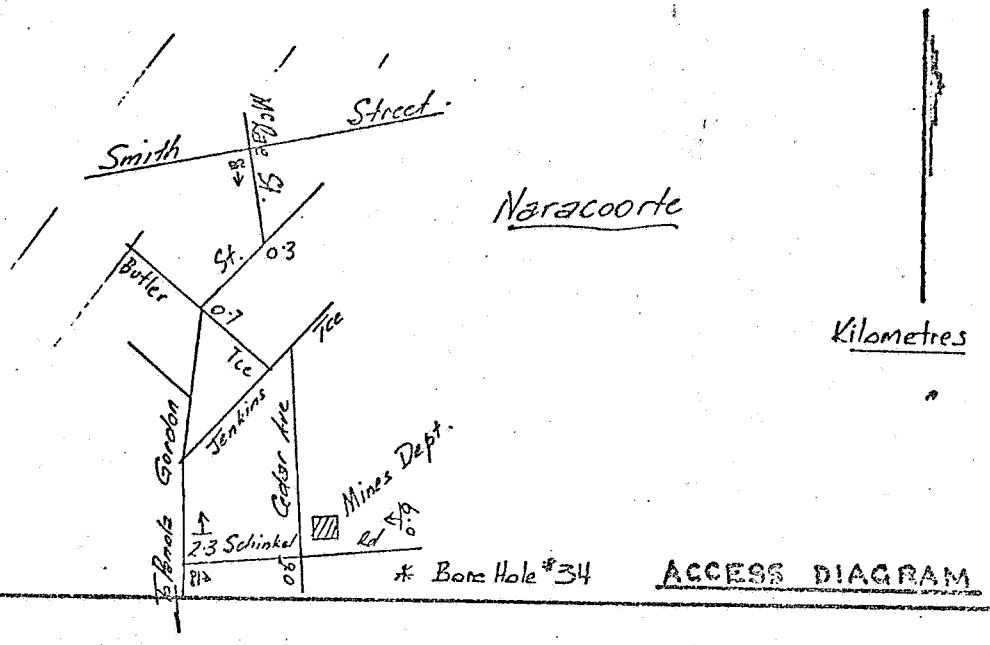
FILM : ..... PHOTO : ..... RUN : ..... DATE OF SURVEY : 9-6-75

7024 1561

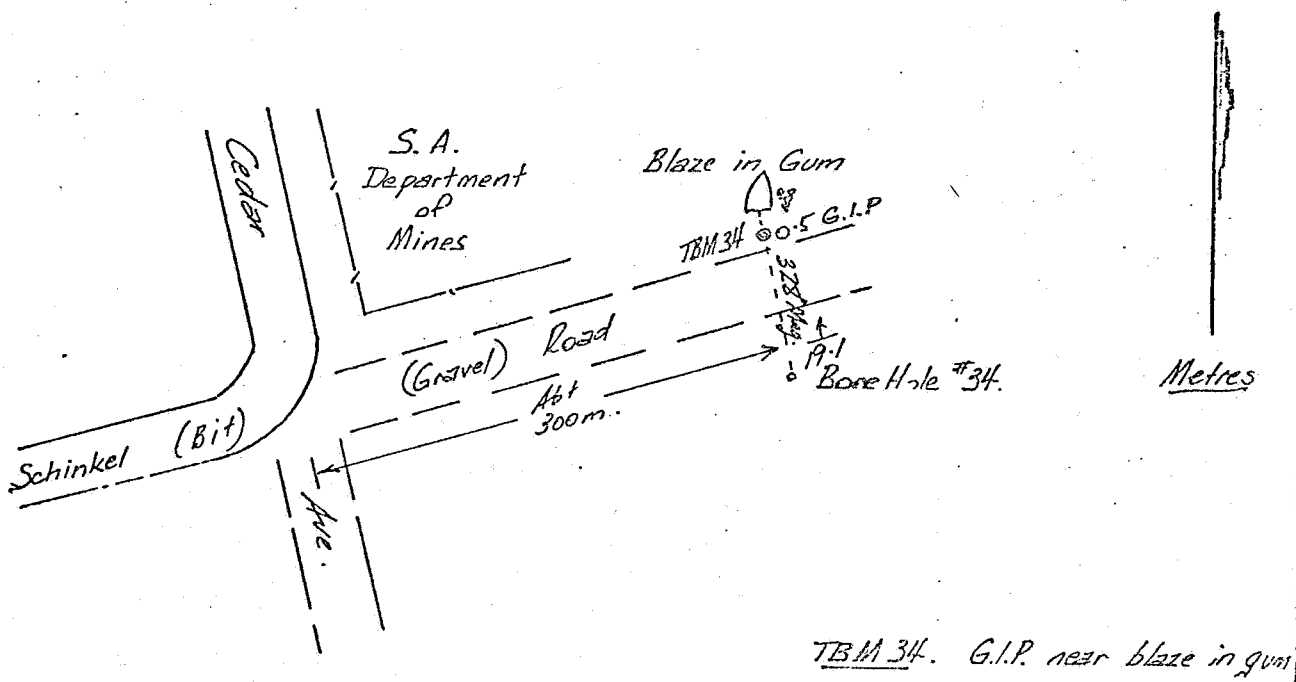
DEPARTMENT OF SERVICES AND PROPERTY

110

PROJECT ROBE – NARACOORTE COASTAL SURVEY STN. Bore Hole #34



ACCESS DIAGRAM



TBM 34. G.I.P near blaze in gum
RL = 89·89 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #34	° ' "	° ' "	477590·	5907590·	89·6
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·
	° ' "	° ' "	·	·	·

DATUM OF LEVELS: AHD(m) ORIGIN OF LEVELS: BM 1940 R.L. 66·85

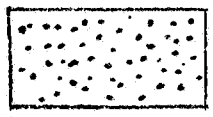
FIELD BOOK : VOL. ..... FOLIO ..... GRID AMG Zone 54

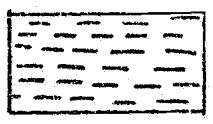
LEVEL BOOK: VOL. P13148,9 FOLIO ..... SURVEYED BY : Whittle

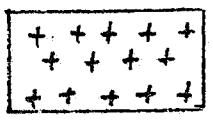
FILM: ..... PHOTO: ..... RUN: ..... DATE OF SURVEY: 9-6-75

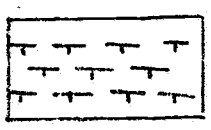
Duplicate

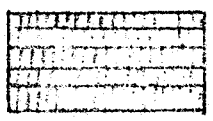
KEY

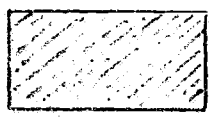

Quartzose sand / sandstone

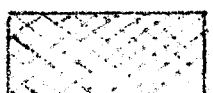

clay / claystone

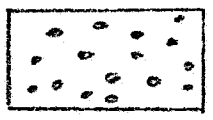

Calcarenite


Calcilutite

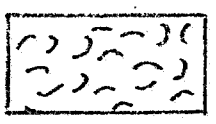

calcrete

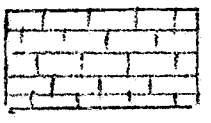

soil

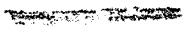

chert


Quartz granules + pebbles


Calcrete pebbles


shell grit


Gambier Limestone


Ferruginised surface


Fossils


Fossil fragments


Rhombs


Root fragments, Plant fibres


Cross bedding, low angle


Wavy lamination

Heavy minerals, opaque grains

Fe Iron staining

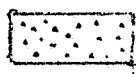
Mn Manganese staining

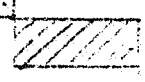
P Pyrite

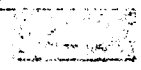
Gl Glauconite


Mica

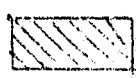
SEDIMENT COMPONENTS

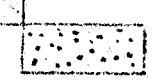

Framework


Matrix


Cement

FRAMEWORK COMPOSITION

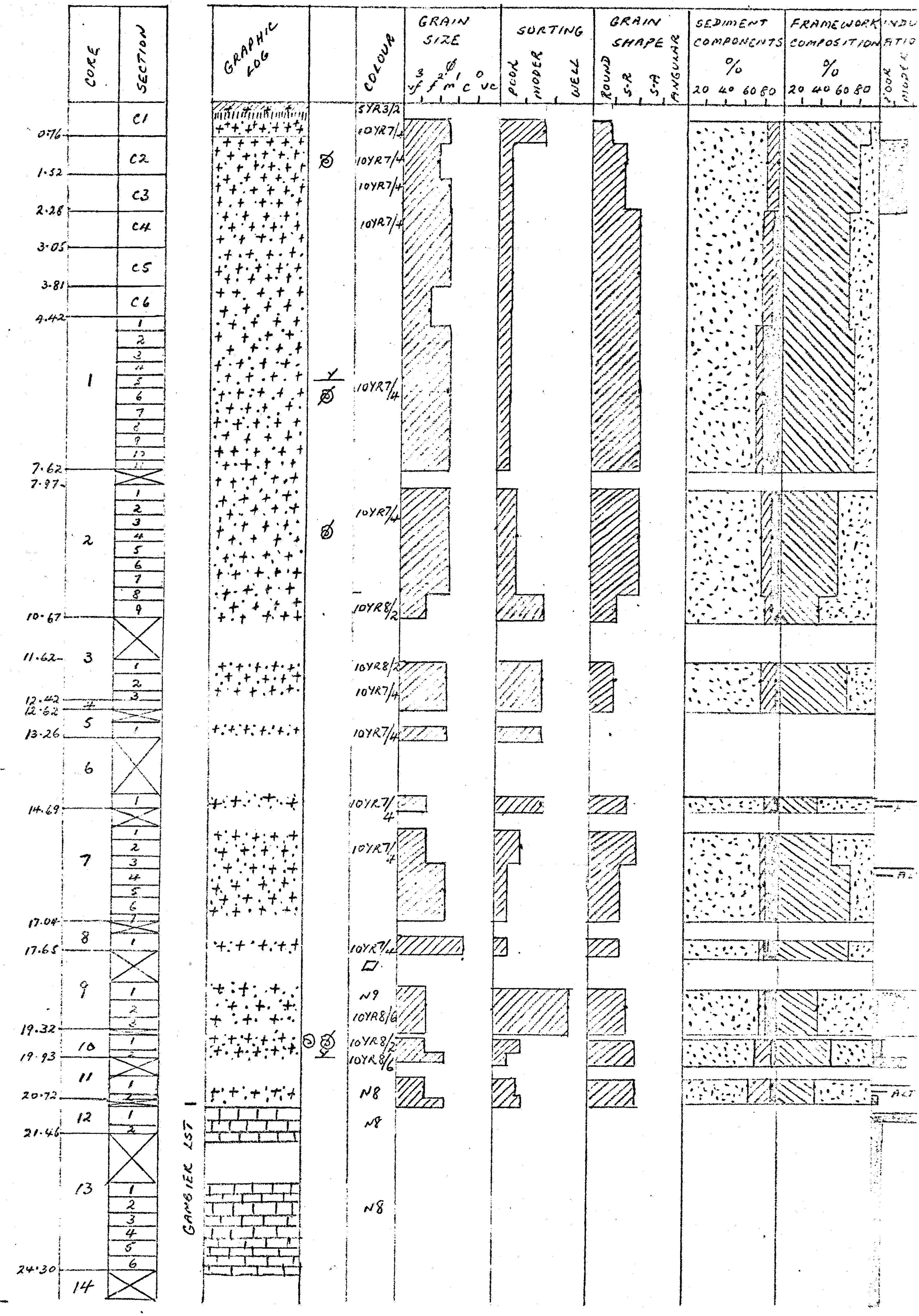

Carbonate


Quartz

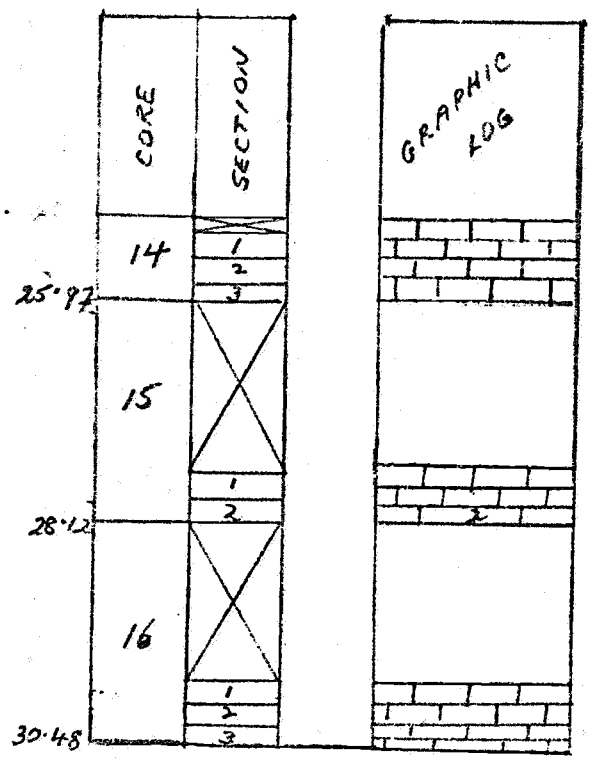
INDURATION:

ALT Alternating indurated + non-indurated bands

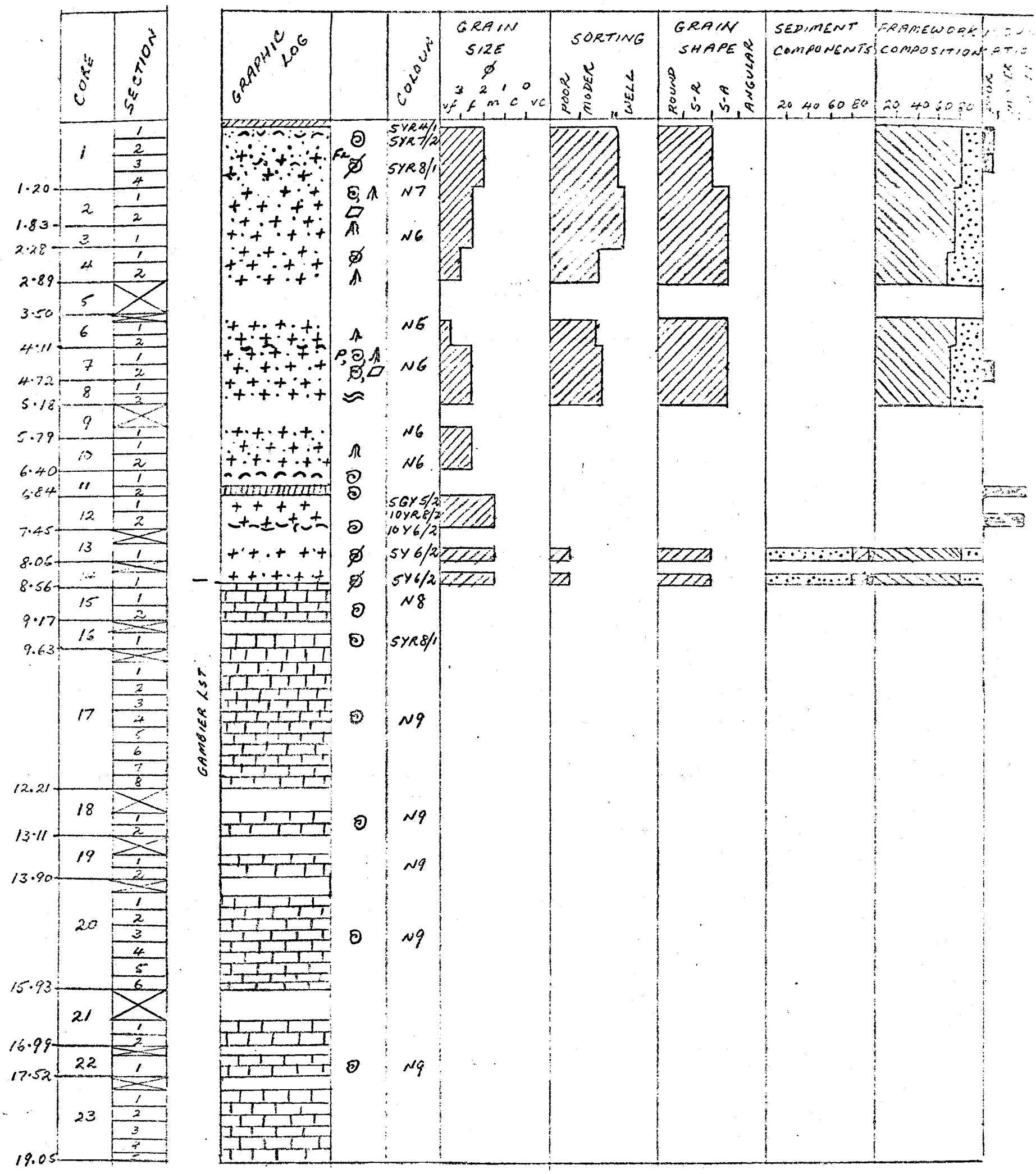
PENOLA NO 2


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
C1 C2 C3 C4 C5 C6
0.76
1.52
2.28
3.05
3.81
4.42
7.62
7.97
10.67
11.62
12.42
12.62
13.26
14.69
17.04
17.65
19.32
19.93
20.72
21.46
24.30
5YR3/2
10YR7/4
10YR8/2
10YR8/6
N9
N8
GAMBIER LST

PENOLA NO. 2 (CONT.)



PENOLA 3


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
Ø 3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS
20 40 60 80
FRAMEWORK COMPOSITION
20 40 60 80
1.20
1.83
2.28
2.89
3.50
4.11
4.72
5.18
5.79
6.40
6.84
7.45
8.06
8.56
9.17
9.63
12.21
13.11
13.90
15.93
16.99
17.52
19.05
GAMBIER LST
SYR4/1
SYR7/2
SYR8/1
N7
N6
N6
N6
N6
SGY5/2
10YR8/2
10Y6/2
5Y6/2
5Y6/2
N8
SYR8/1
N9
N9
N9
N9
N9

PENOLA 4

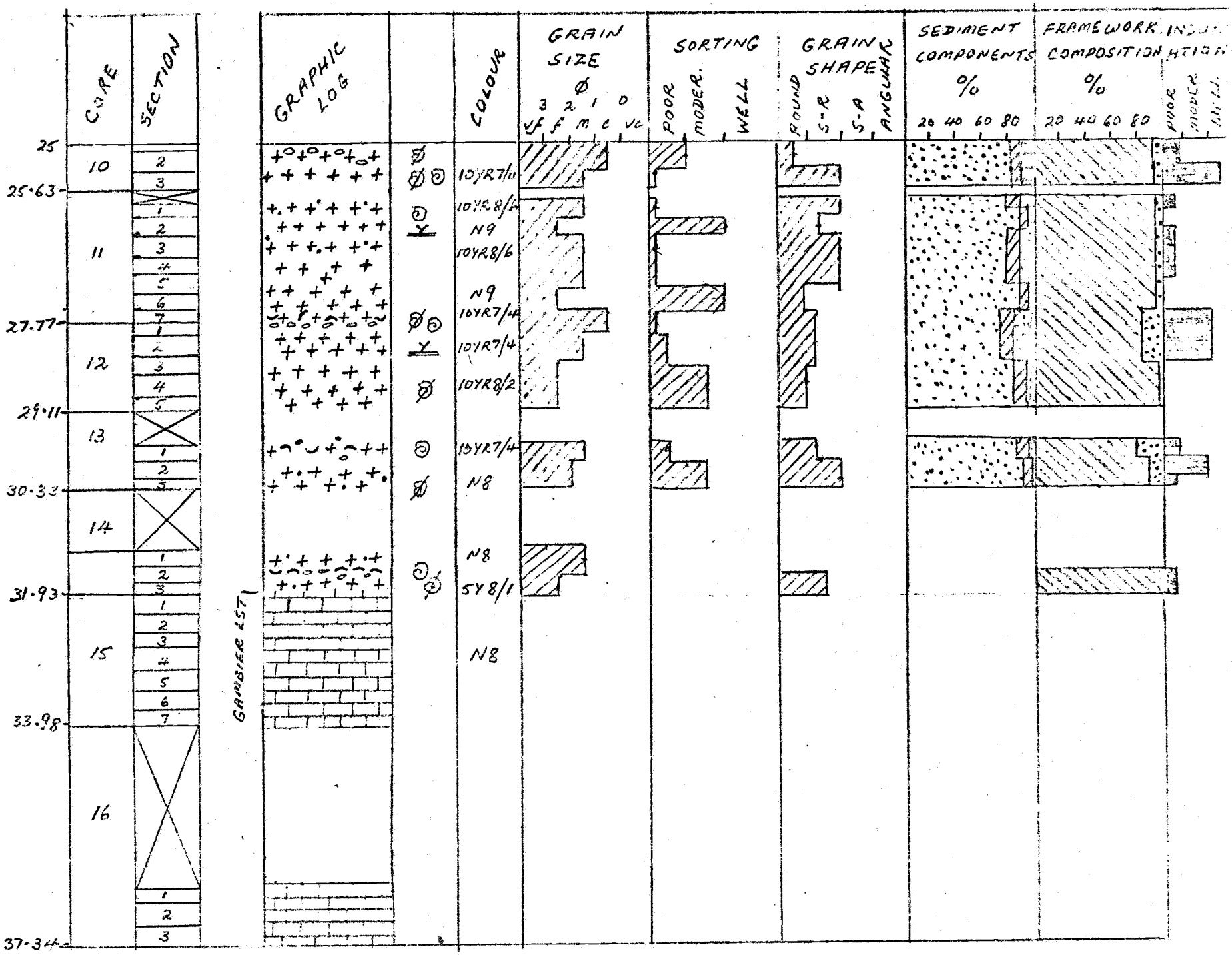
CORE | SECTION | GRAPHIC LOG | COLOUR | GRAIN SIZE (Ø 3 2 1 0 — vf f m c vc) | SORTING (POOR MODER WELL) | GRAIN SHAPE (ROUND S-R S-A ANGULAR) | SEDIMENT COMPONENTS % (20 40 60 80) | FRAMEWORK COMPOSITION % (20 40 60 80) | INDURATION (POOR WELL)

CUTTINGS

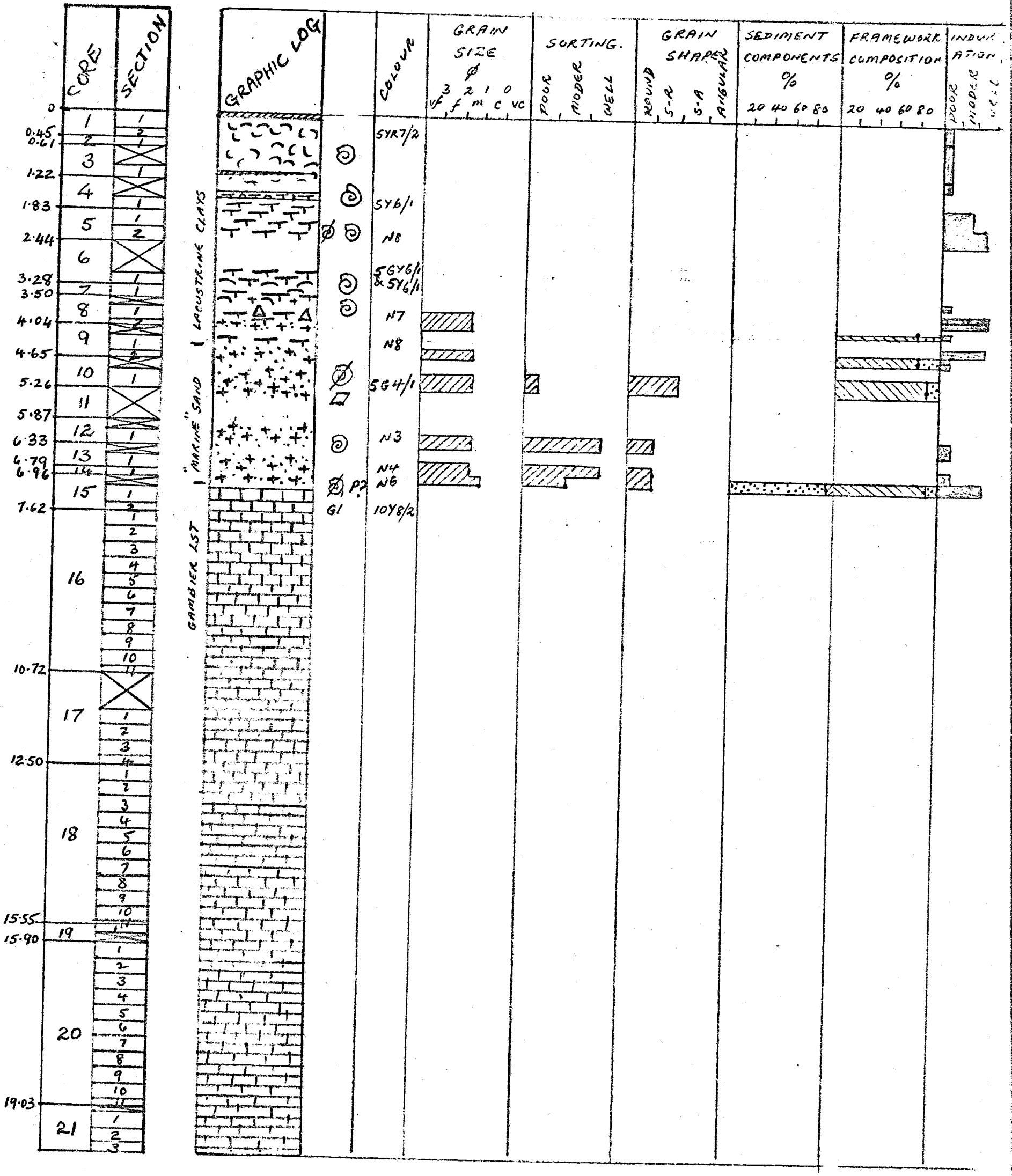
0
0·76 — C1
1·52 — C2
2·28 — C3
3·05 — C4
3·81 — C5
4·57 — C6
5·33 — C7
6·10 — C8
6·86 — C9
7·62 — C10
8·38 — C11
9·04 — C12
10·41 — 1
12·39 — 2
15·07 — 3
16·89 — 4
19·71 — 5
20·08 — 6
21·39 — 7
21·84 — 8
24·79 — 9

10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR8/2
10YR7/4
10YR7/4
5YR8/1 10YR6/6
10YR8/2
5Y8/1 10YR7/4
10YR7/4
Fe
Fe

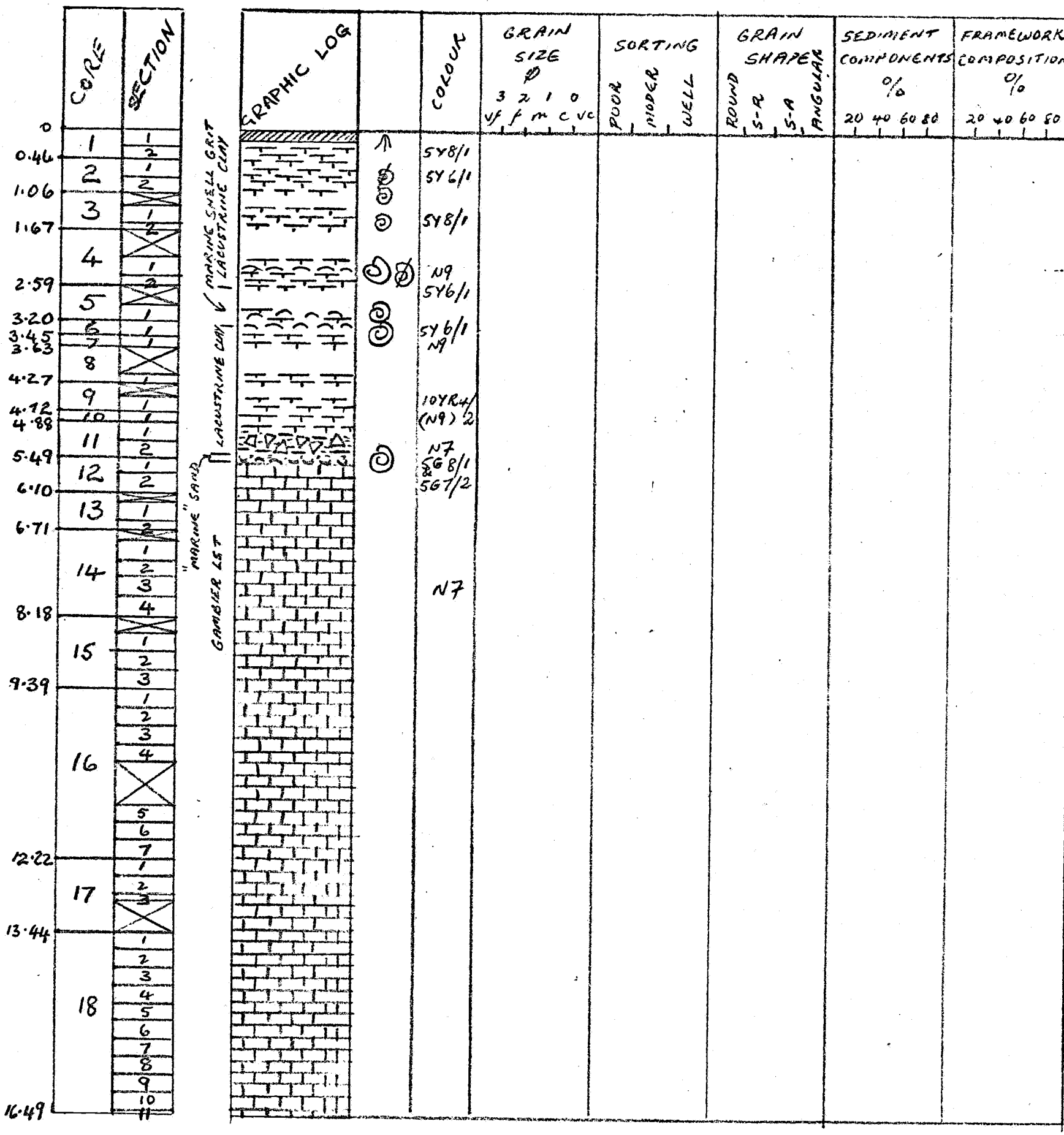
PENOLA 4 (CONT.)



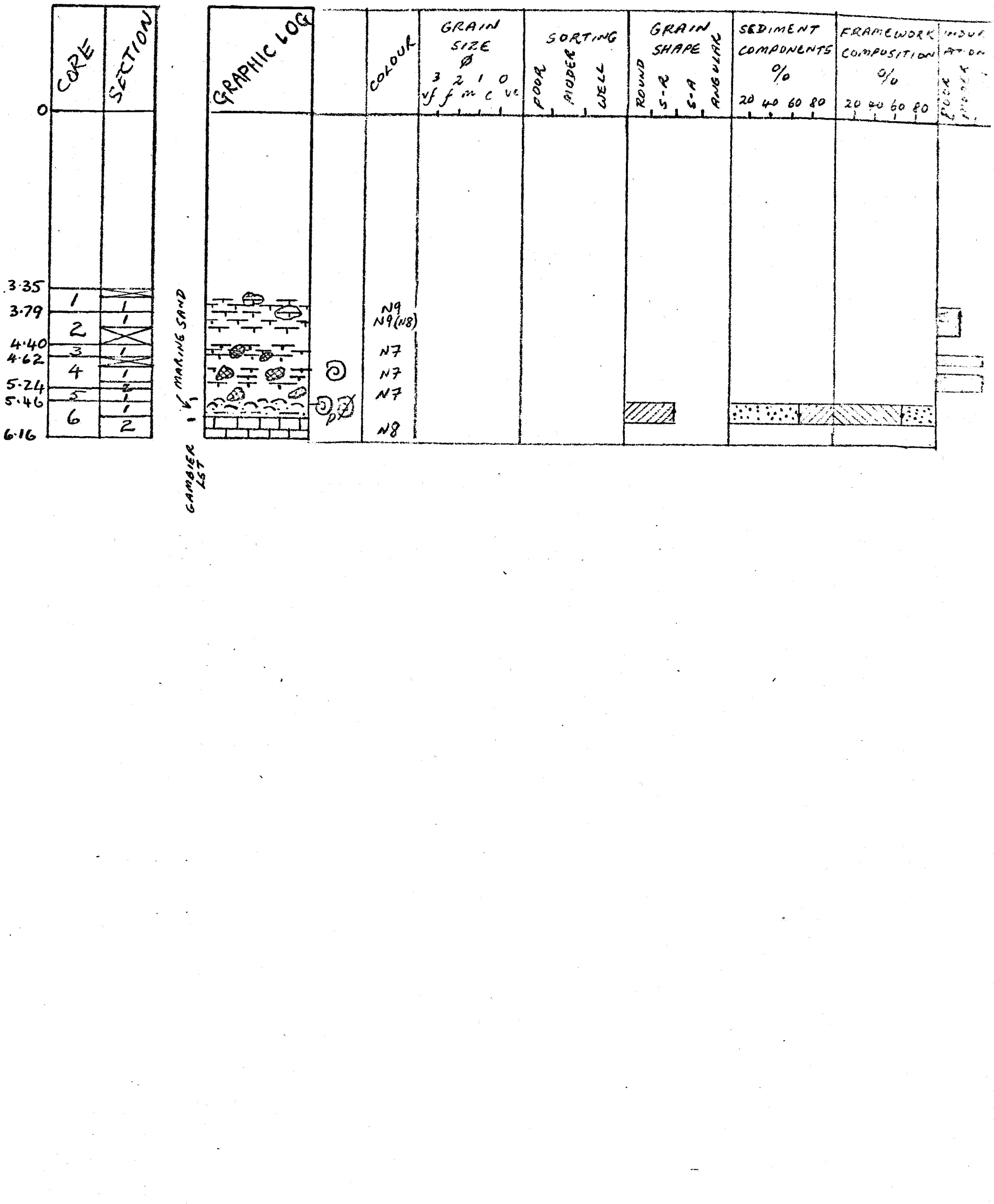
PENOLA 5


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING.
GRAIN SHAPE
SEDIMENT COMPONENTS %
FRAMEWORK COMPOSITION %
INDURATION
0
0.45
0.61
1.22
1.83
2.44
3.28
3.50
4.04
4.65
5.26
5.87
6.33
6.79
6.96
7.62
10.72
12.50
15.55
15.90
19.03
LACUSTRINE CLAYS
"MARINE" SAND
GAMBIER LST
5YR7/2
5Y6/1
N8
5GY6/1 & 5Y6/1
N7
N8
5G4/1
N3
N4
N6
P?
G1
10Y8/2

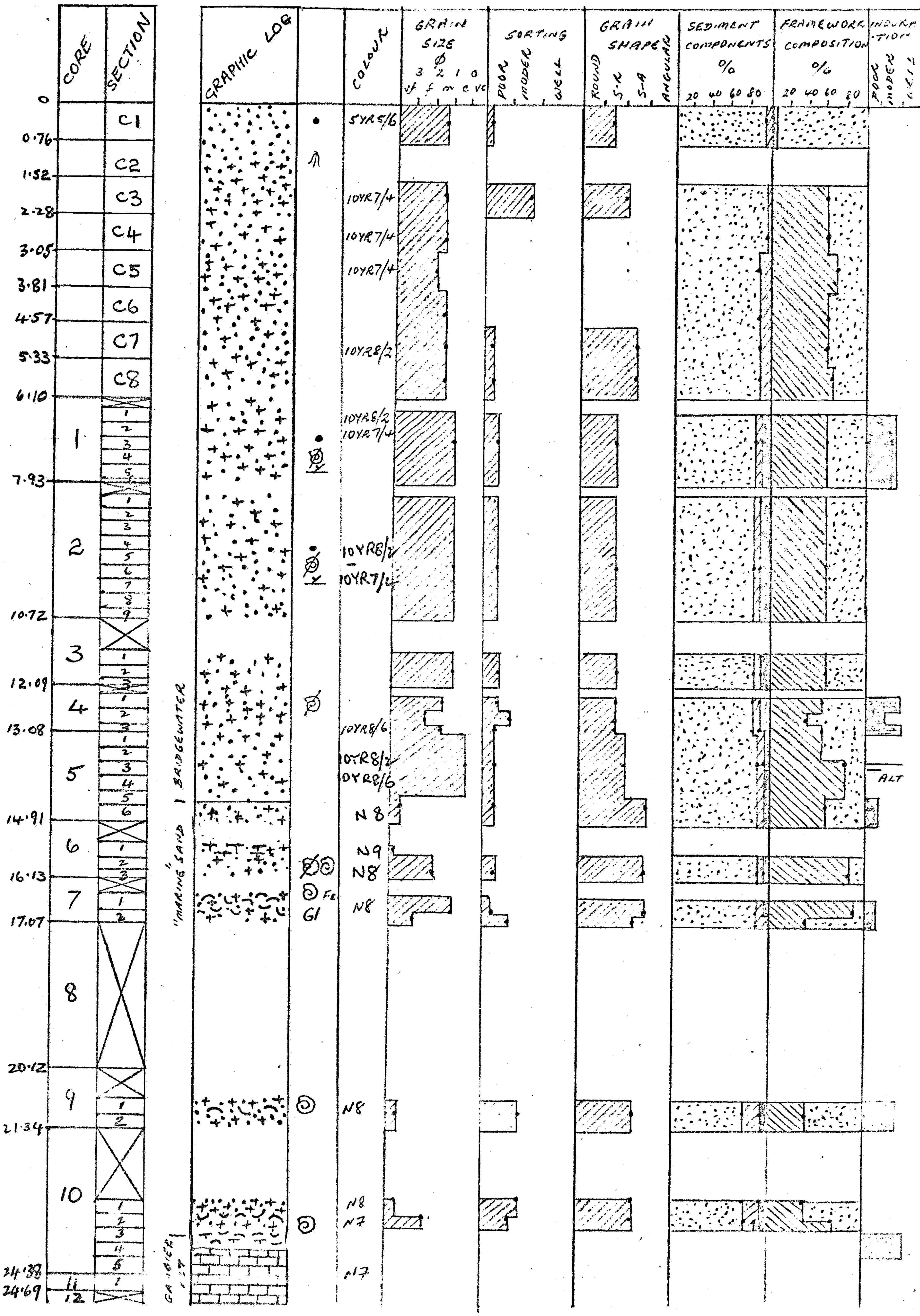
PENOLA No. 7


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
SORTING
GRAIN SHAPE
SEDIMENT COMPONENTS
FRAMEWORK COMPOSITION
INDURATION
0
0.46
1.06
1.67
2.59
3.20
3.45
3.63
4.27
4.12
4.88
5.49
6.10
6.71
8.18
9.39
12.22
13.44
16.49
MARINE SHELL GRIT & LACUSTRINE CLAY
LACUSTRINE CLAY
"MARINE" SAND
GAMBIER LST
5Y8/1
5Y6/1
N9
10YR4/2
(N9)
5G8/1 & 5G7/2
N7

PENOLA 7A

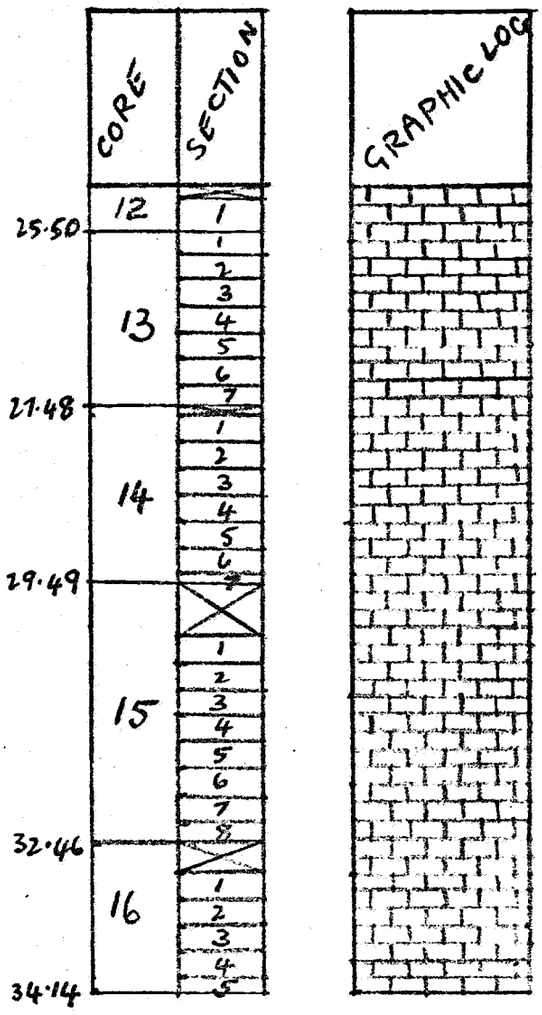

CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
0
3·35
3·79
4·40
4·62
5·24
5·46
6·16
1
2
3
4
5
6
1
1
1
1
1
1
2
MARINE SAND
GAMBIER LST
N9
N9 (N8)
N7
N7
N7
N8

PENOLA No 8

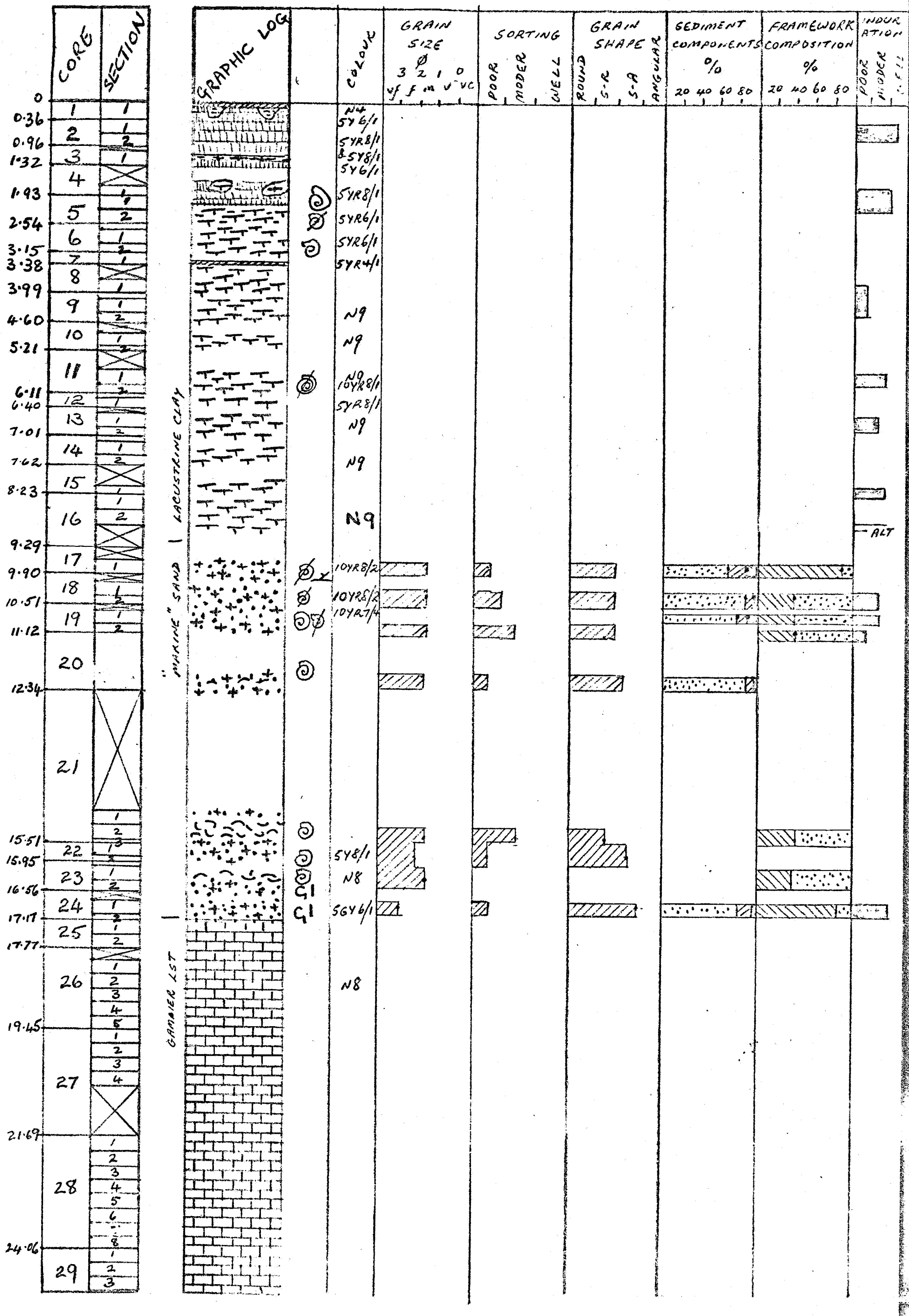


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø 3 2 1 0 vf f m c vc
SORTING POOR MODER WELL
GRAIN SHAPE ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS % 20 40 60 80
FRAMEWORK COMPOSITION % 20 40 60 80
INDURATION POOR MODER
0
0.76
1.52
2.28
3.05
3.81
4.57
5.33
6.10
7.93
10.72
12.09
13.08
14.91
16.13
17.07
20.12
21.34
24.38
24.69
C1
C2
C3
C4
C5
C6
C7
C8
1
2
3
4
5
6
7
8
9
10
11
12
5YR5/6
10YR7/4
10YR7/4
10YR7/4
10YR8/2
10YR8/2
10YR7/4
10YR8/2
10YR7/4
10YR8/6
10YR8/2
10YR8/6
N8
N9
N8
N8
N8
N8
N7
N7
Fe
Gl
ALT
BRIDGEWATER
"MARINE SAND"
GAMBIER LST

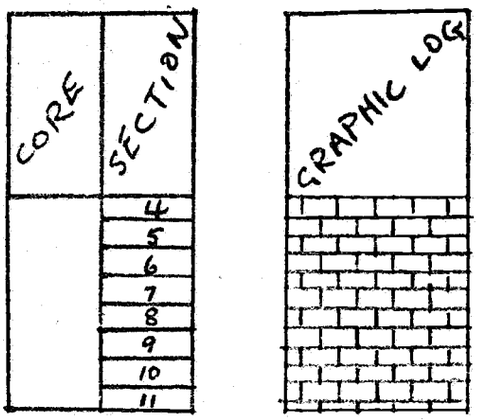
PENOLA No 8 (continued)



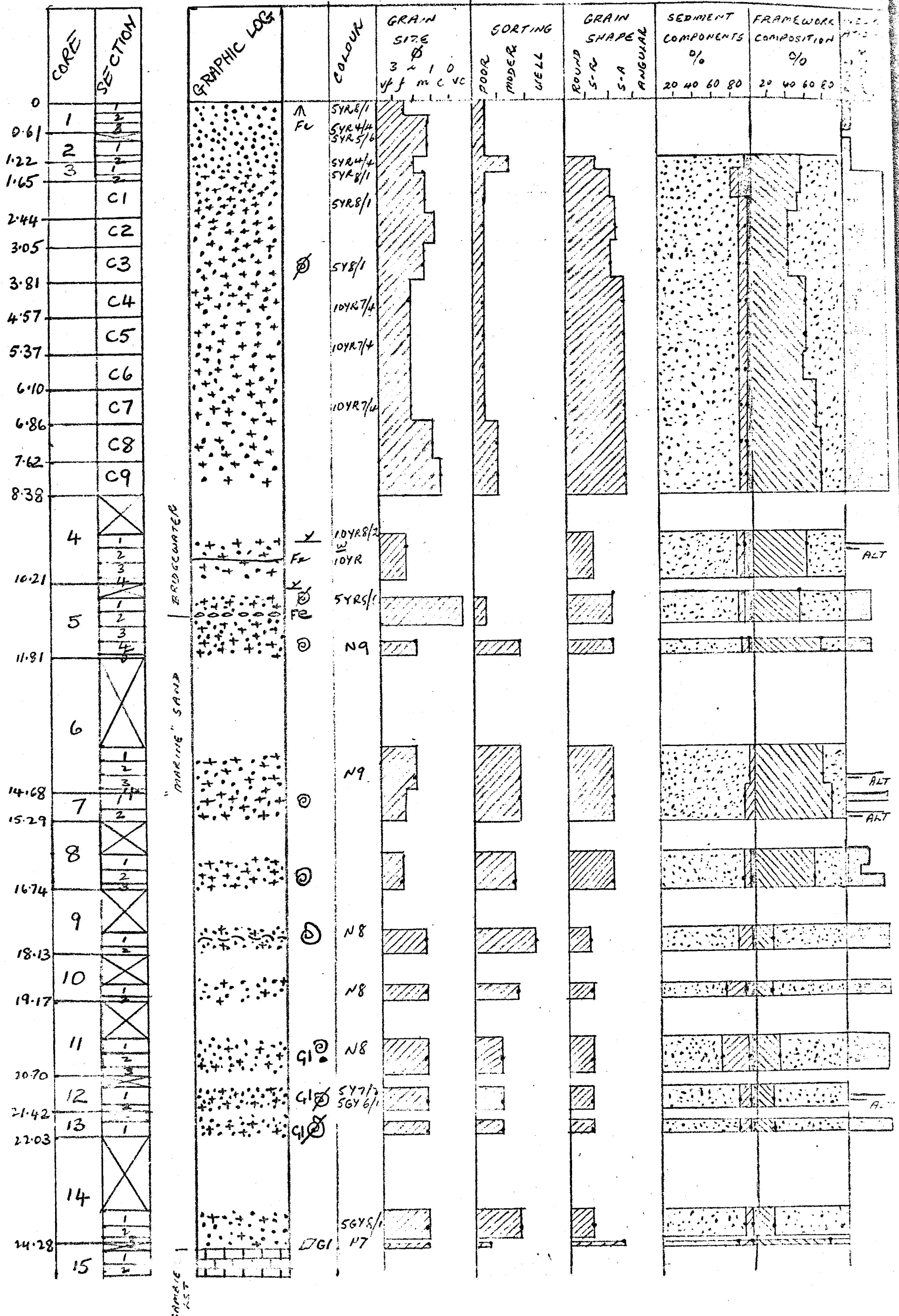
PENOLA No. 11.


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
Ø 3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
POOR MODER
ALT
0
0.36
0.96
1.32
1.93
2.54
3.15
3.38
3.99
4.60
5.21
6.11
6.40
7.01
7.62
8.23
9.29
9.90
10.51
11.12
12.34
15.51
15.95
16.56
17.17
17.77
19.45
21.69
24.06
"MARKHAM" SAND / LACUSTRINE CLAY
GAMMER LST
N4
5Y6/1
5YR8/1
&5Y8/1
5Y6/1
5YR8/1
5YR6/1
5YR6/1
5YR4/1
N9
N9
N9
10YR8/1
5YR8/1
N9
N9
N9
10YR8/2
10YR8/2
10YR7/4
5Y8/1
N8
5GY6/1
N8

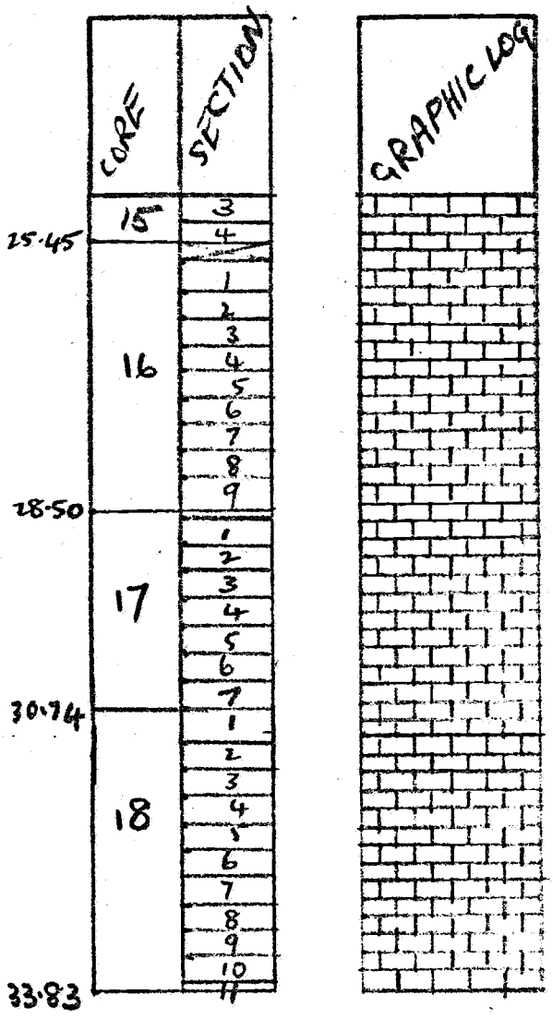
PENOLA NO. 11 (CONT.)



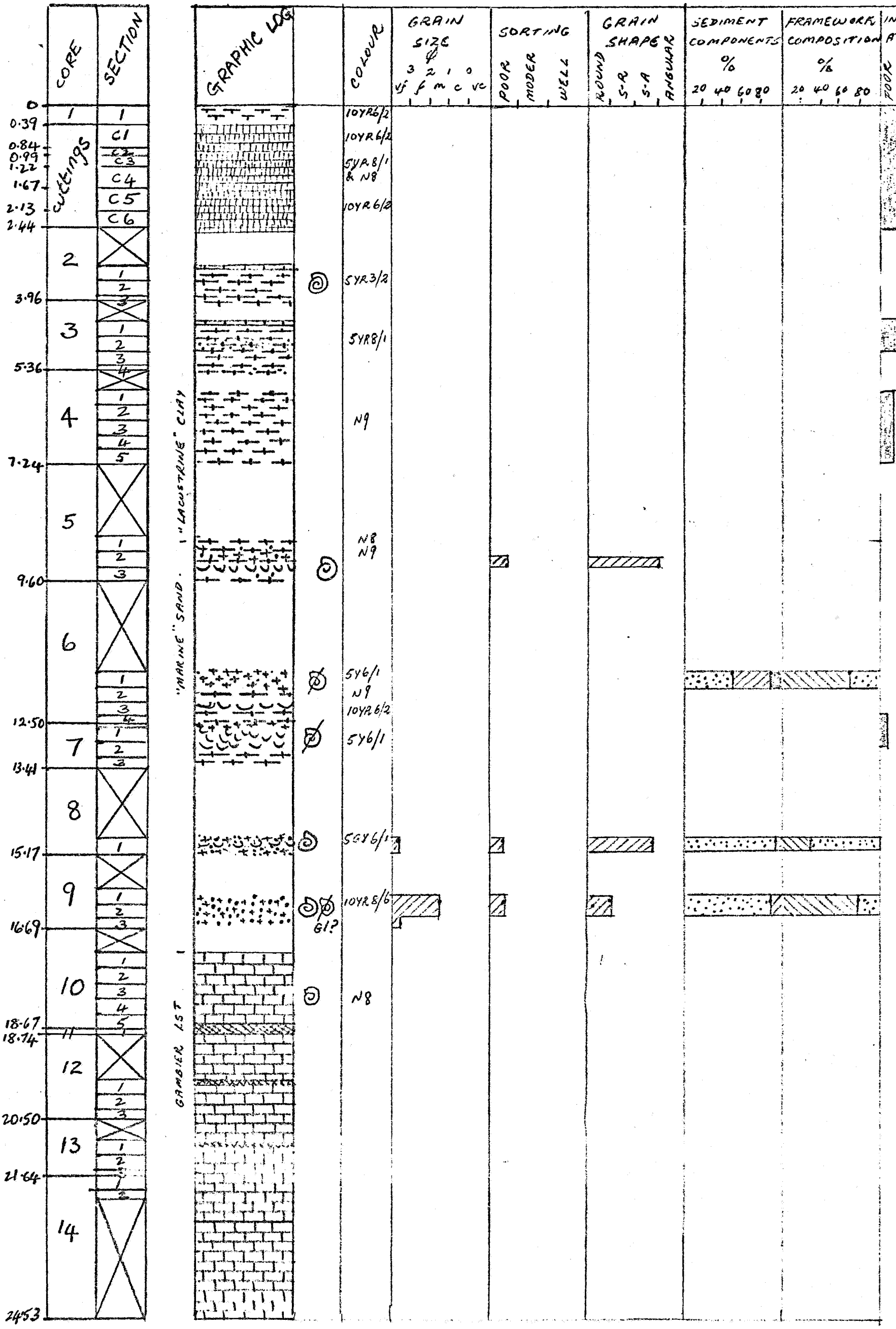
PENOLA 12


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
0
0·61
1·22
1·65
2·44
3·05
3·81
4·57
5·37
6·10
6·86
7·62
8·38
10·21
11·81
14·68
15·29
16·74
18·13
19·17
20·70
21·42
22·03
24·28
1
2
3
C1
C2
C3
C4
C5
C6
C7
C8
C9
4
5
6
7
8
9
10
11
12
13
14
15
5YR8/1
5YR4/4
5YR5/6
5YR4/4
5YR8/1
5YR8/1
5Y8/1
10YR7/4
10YR7/4
10YR7/4
10YR8/2
10YR
5YR5/1
N9
N9
N8
N8
N8
5Y7/2
5GY6/1
5GY8/1
N7
Fe
Fe
G1
G1
G1
G1
BRIDGEWATER
"MARINE" SAND
GAWLER
ALT
ALT
ALT

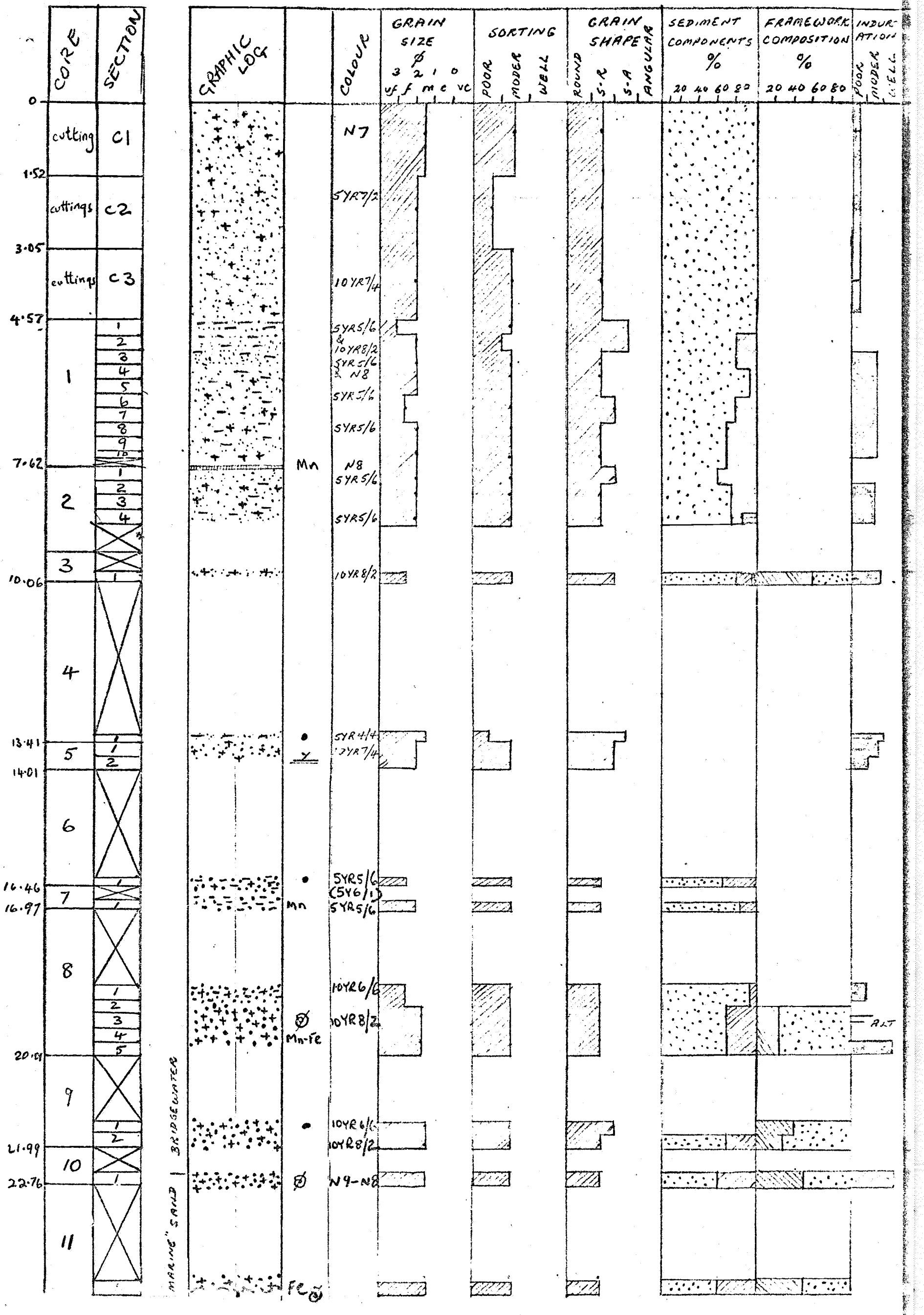
PENOLA No 12 (CONT.)



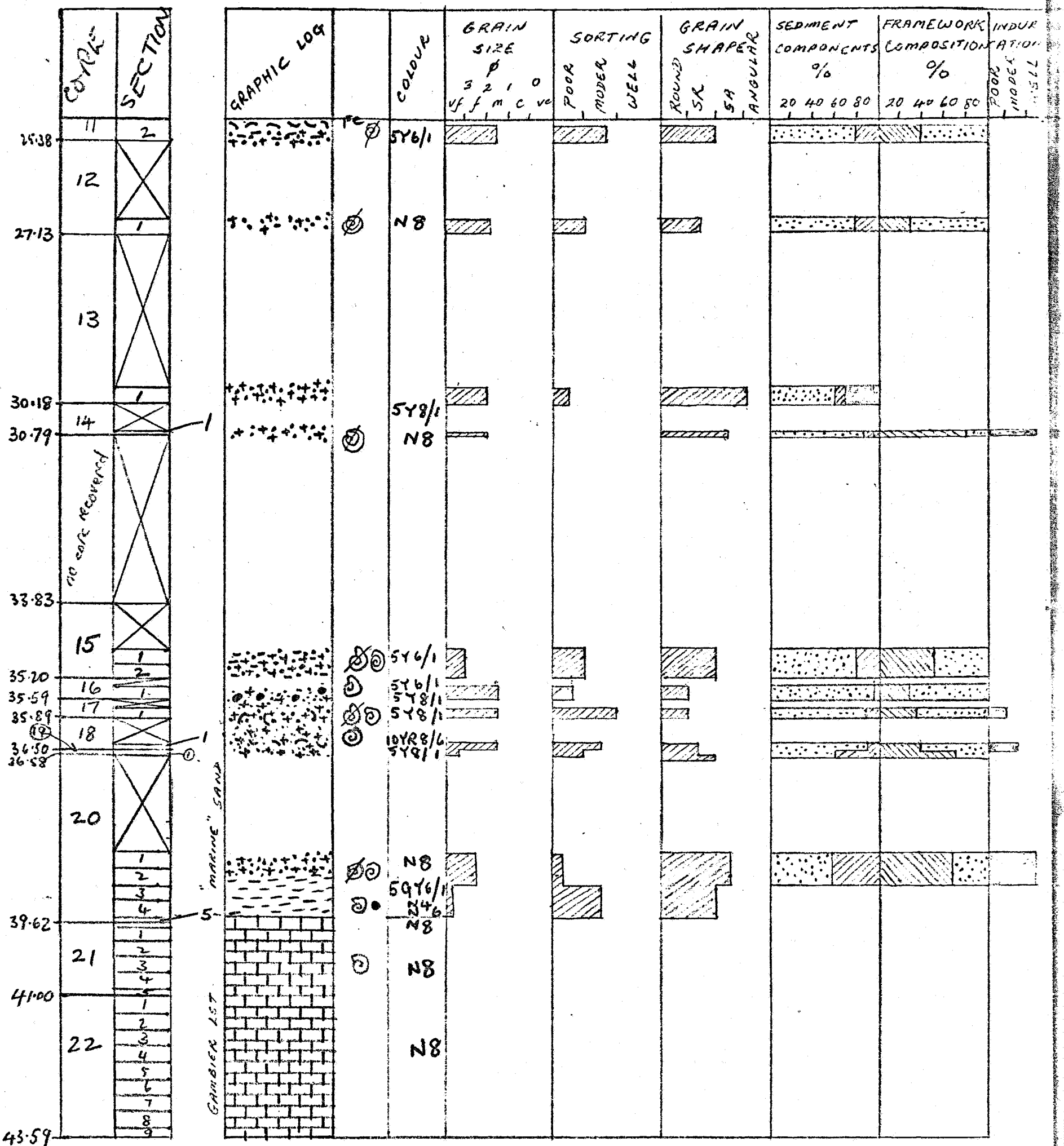
PENOLA 15


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE φ
3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
POOR MODER WELL
0
0.39
0.84
0.99
1.22
1.67
2.13
2.44
3.96
5.36
7.24
9.60
12.50
13.41
15.17
16.69
18.67
18.74
20.50
21.64
24.53
cuttings
"MARINE" SAND. 1
"LACUSTRINE" CLAY
GAMBIER LST
10YR6/2
10YR6/2
5YR8/1 & N8
10YR6/2
5YR3/2
5YR8/1
N9
N8 N9
5Y6/1 N9 10YR6/2
5Y6/1
5GY6/1
10YR8/6
GI?
N8

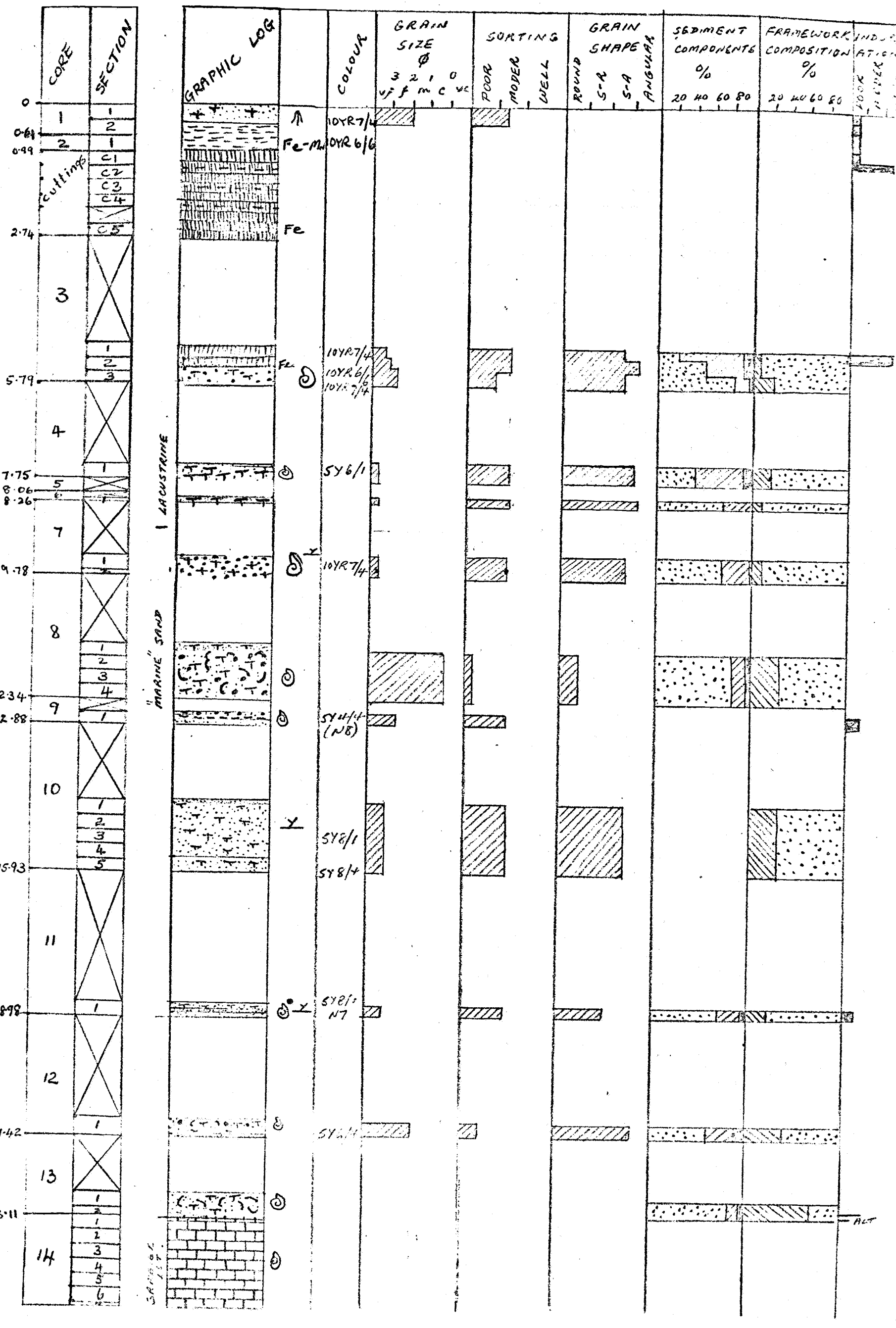
PENOLA No 16


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE
ϕ
3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS
%
20 40 60 80
FRAMEWORK COMPOSITION
%
20 40 60 80
INDURATION
POOR MODER WELL
0
cutting C1
1.52
cuttings C2
3.05
cuttings C3
4.57
1
7.62
2
3
10.06
4
13.41
5
14.01
6
16.46
7
16.97
8
20.01
9
21.99
10
22.76
11
Mn
Mn-Fe
Fe
N7
5YR7/2
10YR7/4
5YR5/6
& 10YR8/2
5YR5/6 & N8
5YR5/6
5YR5/6
N8
5YR5/6
5YR5/6
10YR8/2
5YR4/4
10YR7/4
5YR5/6
(5Y6/1)
5YR5/6
10YR6/6
10YR8/2
10YR6/6
10YR8/2
N9-N8
ALT
BRIDGEWATER "MARINE" SAND

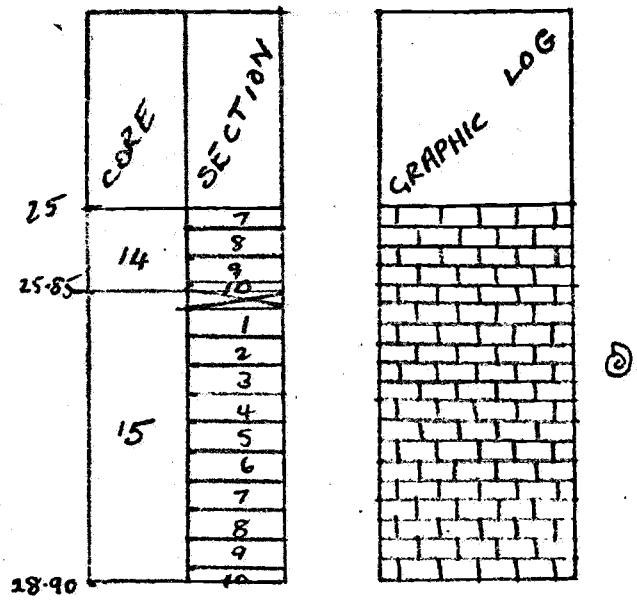
PENOLA 16 (CONT)



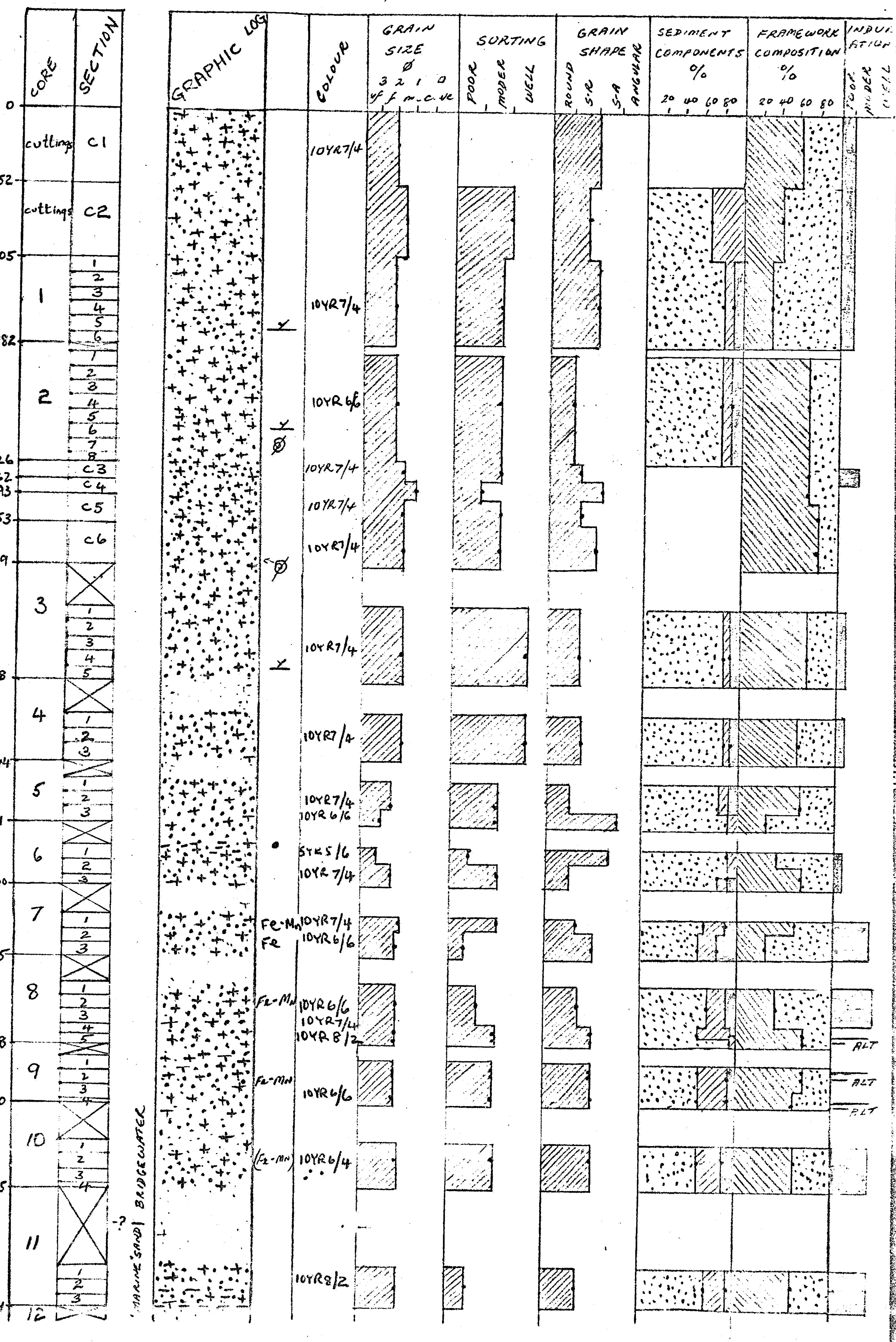
PENOLA 19


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø
3 2 1 0
vf f m c vc
SORTING
POOR MODER WELL
GRAIN SHAPE
ROUND S-R S-A ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
POOR MODER WELL
0
0·61
0·99
2·74
5·79
7·75
8·06
8·26
9·78
12·34
12·88
15·93
18·98
21·42
23·11
cuttings
C1
C2
C3
C4
C5
Fe-Mn
Fe
10YR7/4
10YR6/6
5Y6/1
5Y4/1 (N8)
5Y8/1
5Y8/4
N7
LACUSTRINE
"MARINE" SAND
ALT

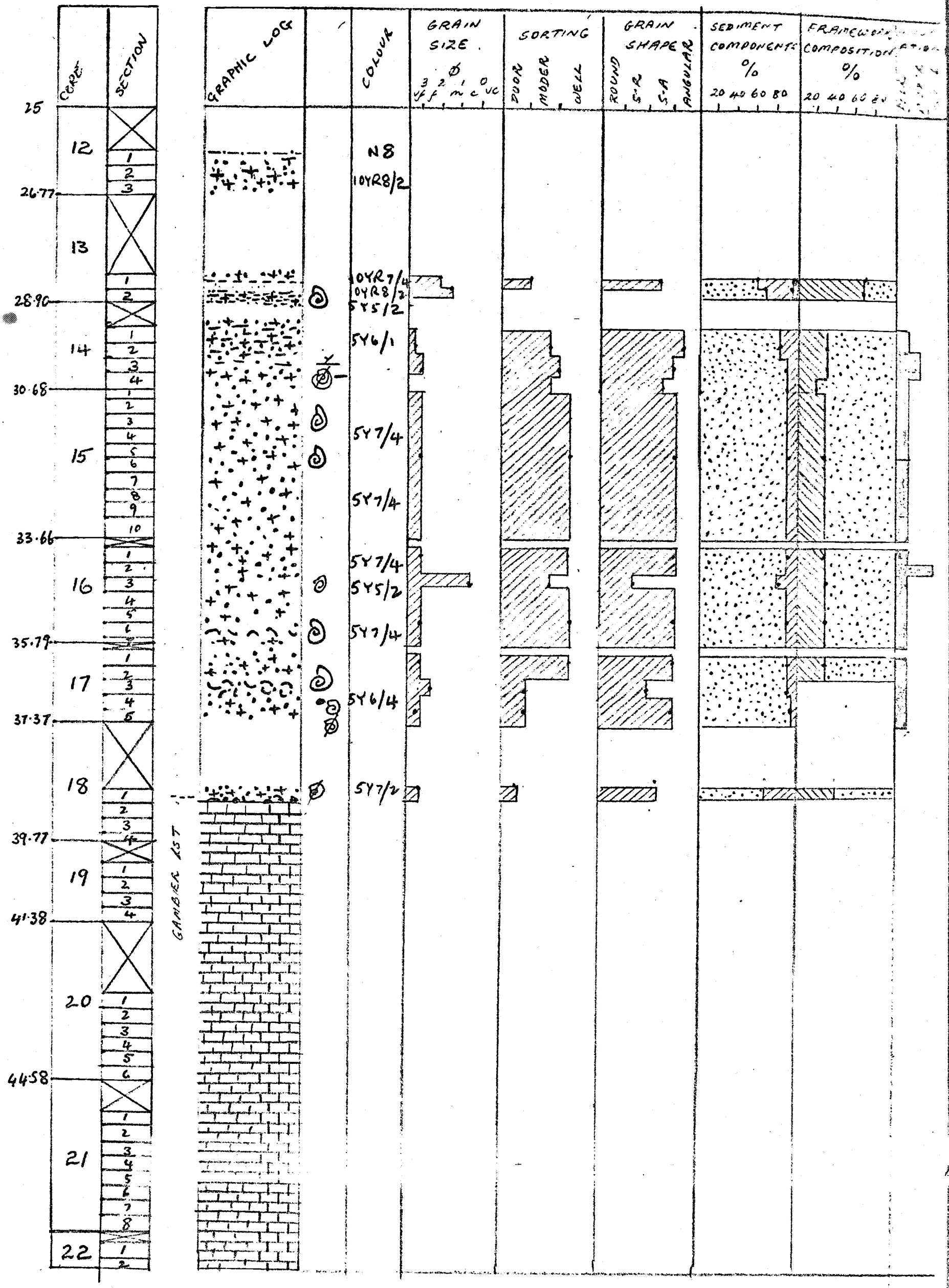
PENOLA 19 (continued)



PENOLA 20


CORE
SECTION
GRAPHIC LOG
COLOUR
GRAIN SIZE Ø
3 2 1 0
vf f m c vc
SORTING
POOR
MODER
WELL
GRAIN SHAPE
ROUND
S-R
S-A
ANGULAR
SEDIMENT COMPONENTS %
20 40 60 80
FRAMEWORK COMPOSITION %
20 40 60 80
INDURATION
POOR
MODER
WELL
0
1.52
3.05
4.82
7.26
7.62
7.93
8.53
9.39
11.78
13.44
14.71
16.00
17.45
19.28
20.50
22.25
24.74
cuttings
C1
C2
C3
C4
C5
C6
1
2
3
4
5
6
7
8
9
10
11
12
10YR7/4
10YR6/6
10YR7/4
10YR6/6
5YR5/6
10YR6/6
10YR8/2
10YR6/4
Fe-Mn
Fe
(Fe-Mn)
ALT
ALT
ALT
-?
MARINE SAND | BRIDGEWATER

PENOLA 20 (continued)



NARACOORTE 21

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE ϕ (3 vf f 2 m 1 c 0 vc)	SORTING (POOR – MODER – WELL)	GRAIN SHAPE (ROUND – S-R – S-A – ANGULAR)	SEDIMENT COMPONENTS % (20 40 60 80)	FRAMEWORK COMPOSITION % (20 40 60 80)	INDURATION (POOR – MODER – WELL)
1	1								
2	1 2 3 4	Fe	N8 (5Y6/1) 10YR8/2 N8						
3			N8						
4	1 2	MN	5Y6/1 N8						
5	1 2 3 4		N9 (5YR5/6) N8 N9						
6	1 2 3 4 5 6		N9 N9 (5YR5/6)						
7	1 2 3 4		N7 (5YR5/6)						
8	1 2 3 4 5 6 7 8	Fe	5Y6/1 4Y4/1 5YR5/6						
9	1 2 3		10YR7/4						
10	1		10YR7/4						
11	1 2		5Y8/1 N8						
12	1 2 3 4 5 6	Fe	5Y8/1 10YR7/4						
13	1 2 3 4 5 6 7 8								

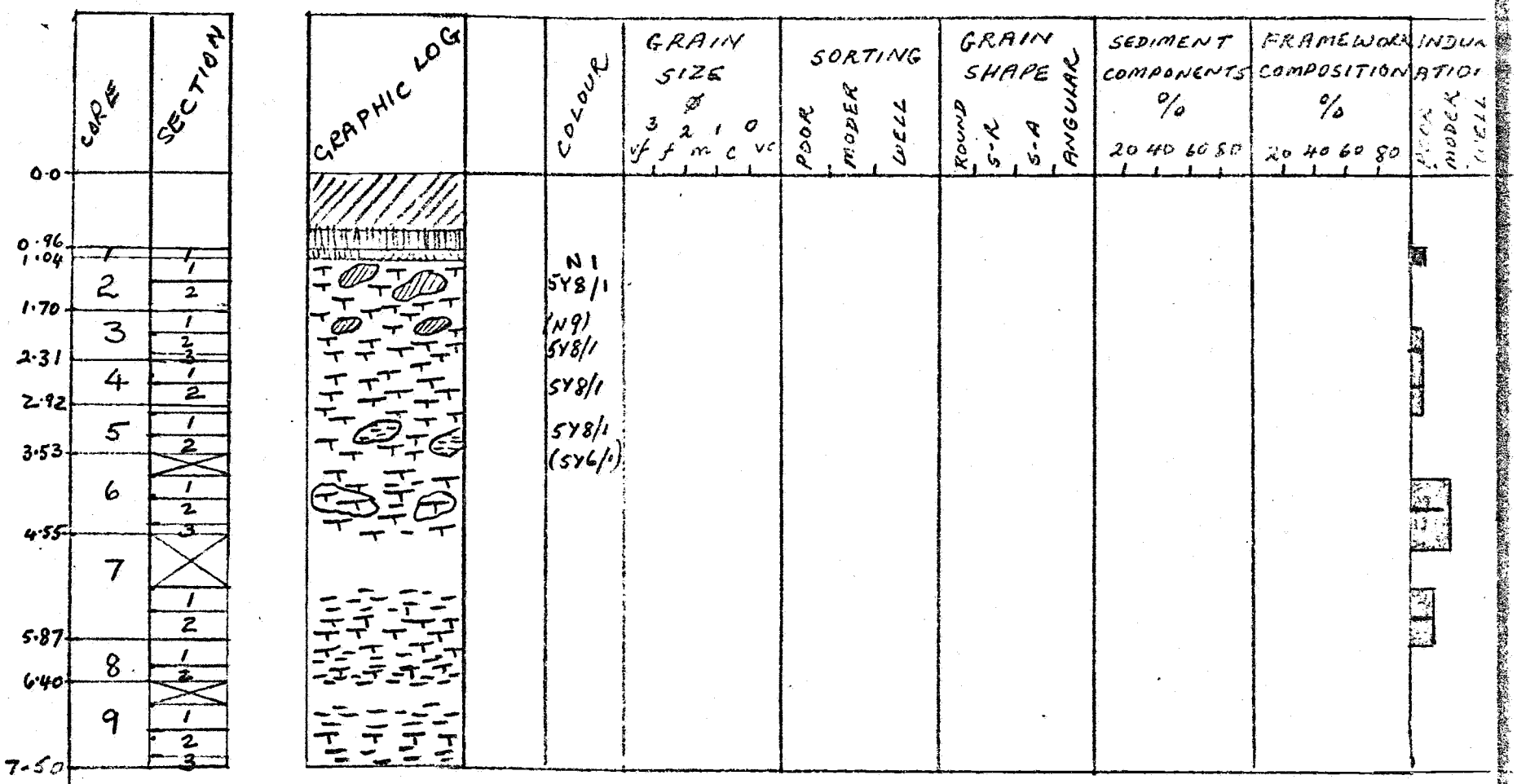
3.66
3.96
5.18
5.64
6.40
8.03
10.00
12.29
14.88
17.83
19.08
20.73
23.77
26.82

"LIMESTONE" CLAY

"MARINE" SAND

GRAVEL LST

NARA COORTLE 21A



Duplicate

KEY.

Quartzose sand/sandstone

Clay/Claystone.

Calcarenite.

Calcilutite.

Calcrete.

Soil

Chert.

Quartz granules & pebbles.

Calcrete pebbles.

Shell grit.

Lignitic clays.

Lignite.

Gambier & Naracoorte Limestone and equivalents.

Granite, microgranite.

- Fossils.
- Fossil fragments.
- Dolomite rhombs
- Cross bedding
- Wavy lamination
- Root fragments, plant fibres
- Heavy minerals, opaque grains (observed under binocular microscope)
- Mica
- Fe Iron staining
- Mn Manganese staining
- P Pyrite
- Gl Glauconite.
- Ferruginized surface.

SEDIMENT COMPONENTS:

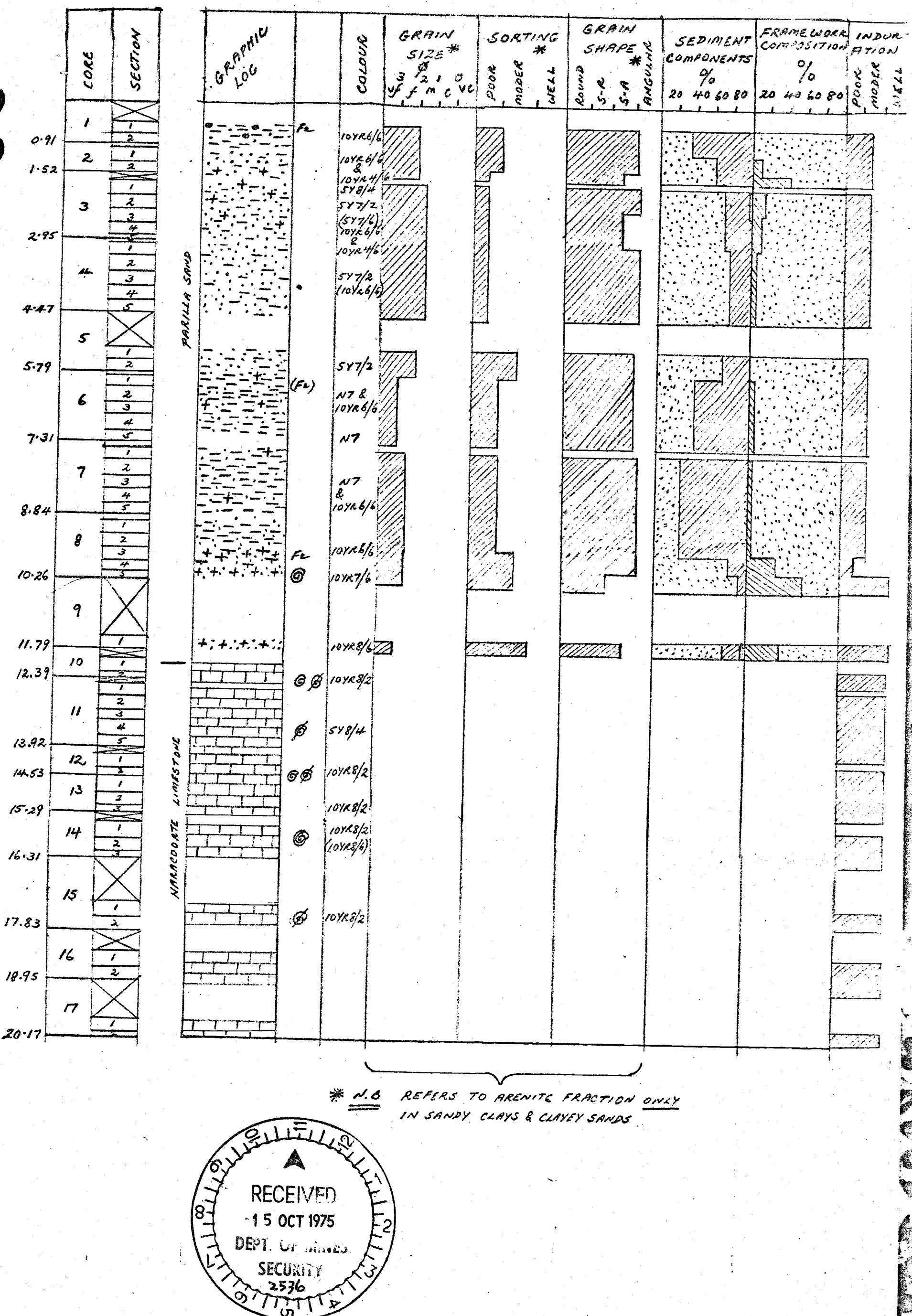
Framework (Arenite)
Matrix, Cement (Lutite)
Porosity

FRAMEWORK COMPOSITION

INDURATION:

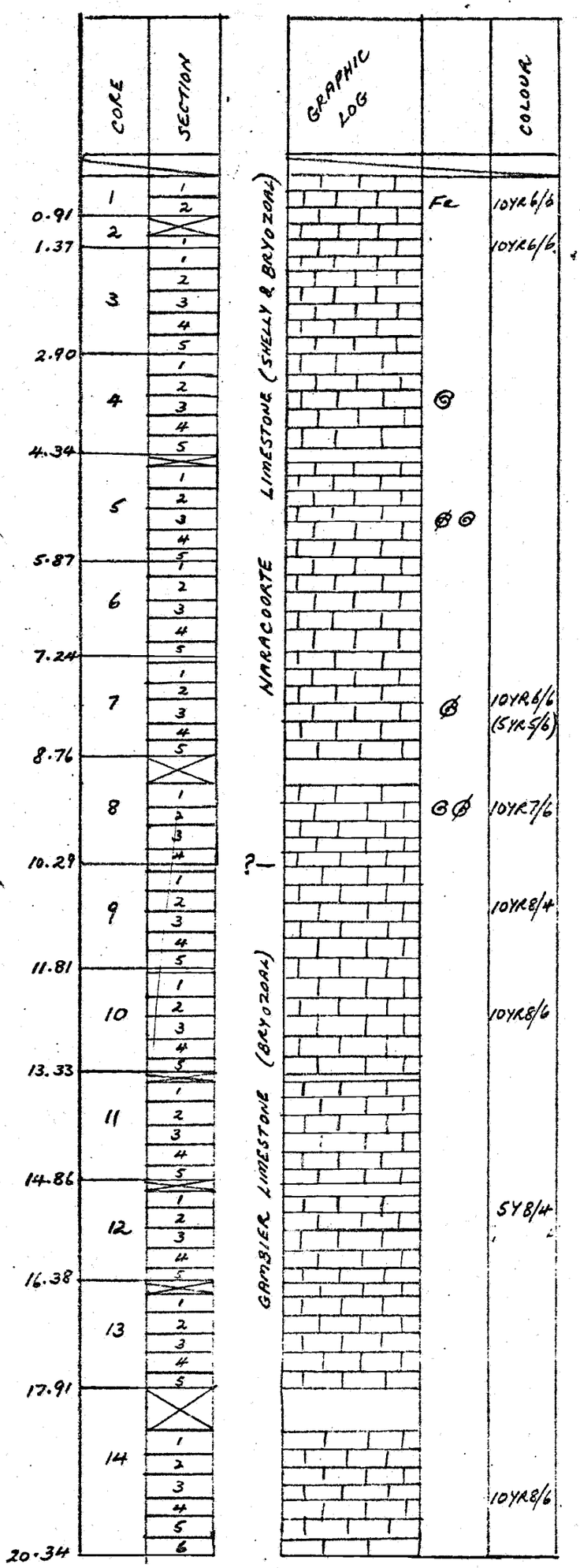
ALT Alternating indurated & non-indurated banks.

NARACOORTE #36



* N.B REFERS TO ARENITE FRACTION ONLY IN SANDY CLAYS & CLAYEY SANDS

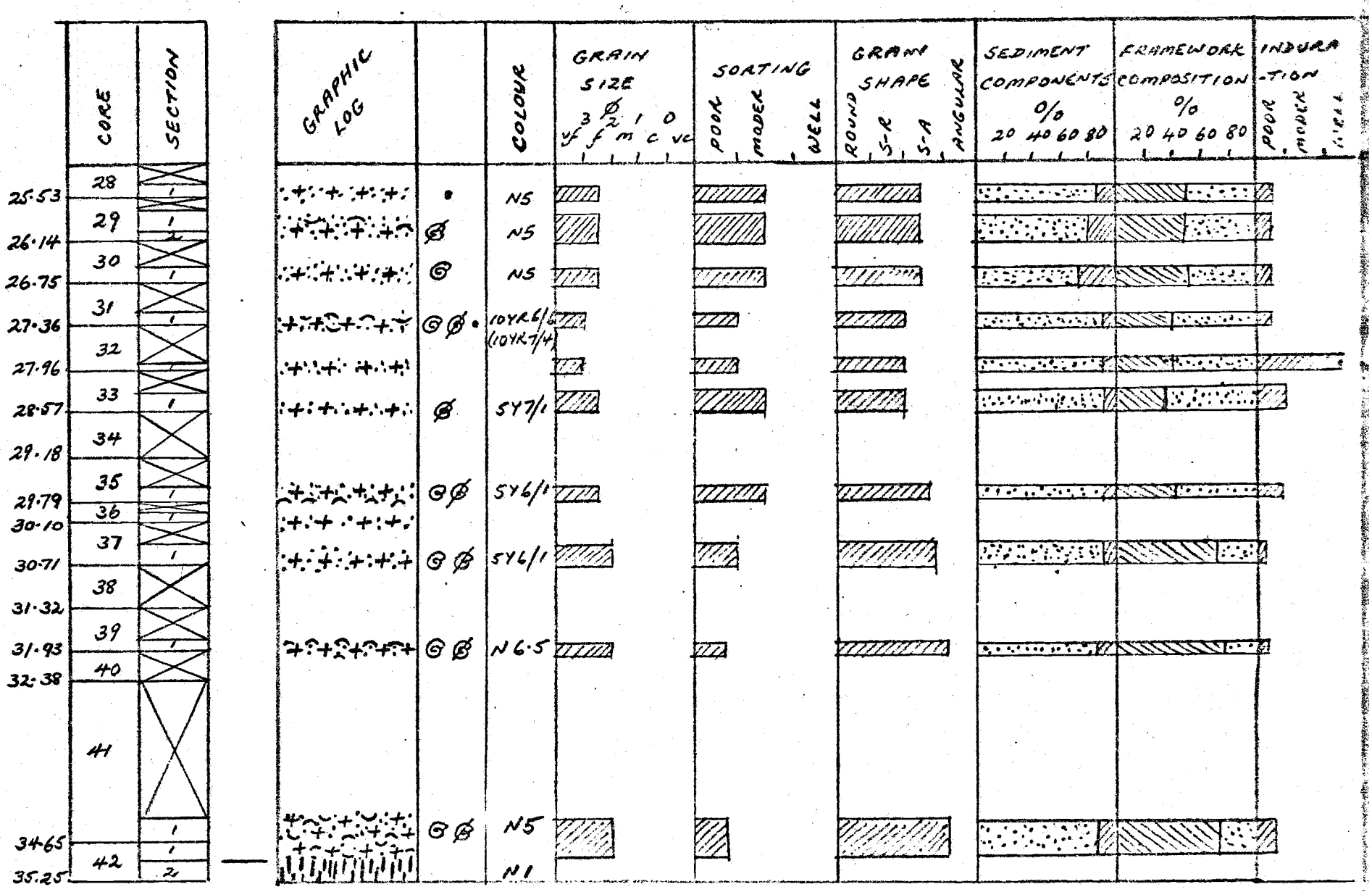
NARACOORTE #37



NARACOORTE # 38

CORE	SECTION		GRAPHIC LOG	COLOUR	GRAIN SIZE Ø 3 2 1 0	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDUR-ATION POOR MODER
1	1			5Y8/1						
	2	0·91								
2	1			10YR 8/2						
	2	1·52								
	1			N9						
	2			5Y6/1						
3	3			10YR 8/2						
		3·05								
4	1			5Y8/1						
	2	3·86		5Y8/1						
5	1									
	2	4·77		5Y8/1						
6				10YR 7/2						
	1	5·38								
7	2	5·64								
8	1	5·99		5Y8/1						
9	1									
	2	6·60		5Y8/1						
10		7·01								
11	1	7·31		5Y8/1						
12										
13	1	7·92								
14	1	8·53		10Y6/2						
15	2	8·99		10YR 8/2						
16	1			10Y8/2						
	2	9·60		& 10YR6/6						
17		10·21		5Y8/1						
18	1	10·36		5Y7/1						
19	1									
	2	11·28		5Y7/1						
20	1	11·89		10YR7/4						
21		13·56		10YR7/4						
22	1	15·24		10YR6/6						
23	1									
	2	17·60		10YR6/6						
24	1									
	2	20·65		10YR6/6						
25	1									
	2	23·70		10YR7/4						
26	1	24·31		N5						
27		24·92								

NARACOORTE #38 (CONT.)

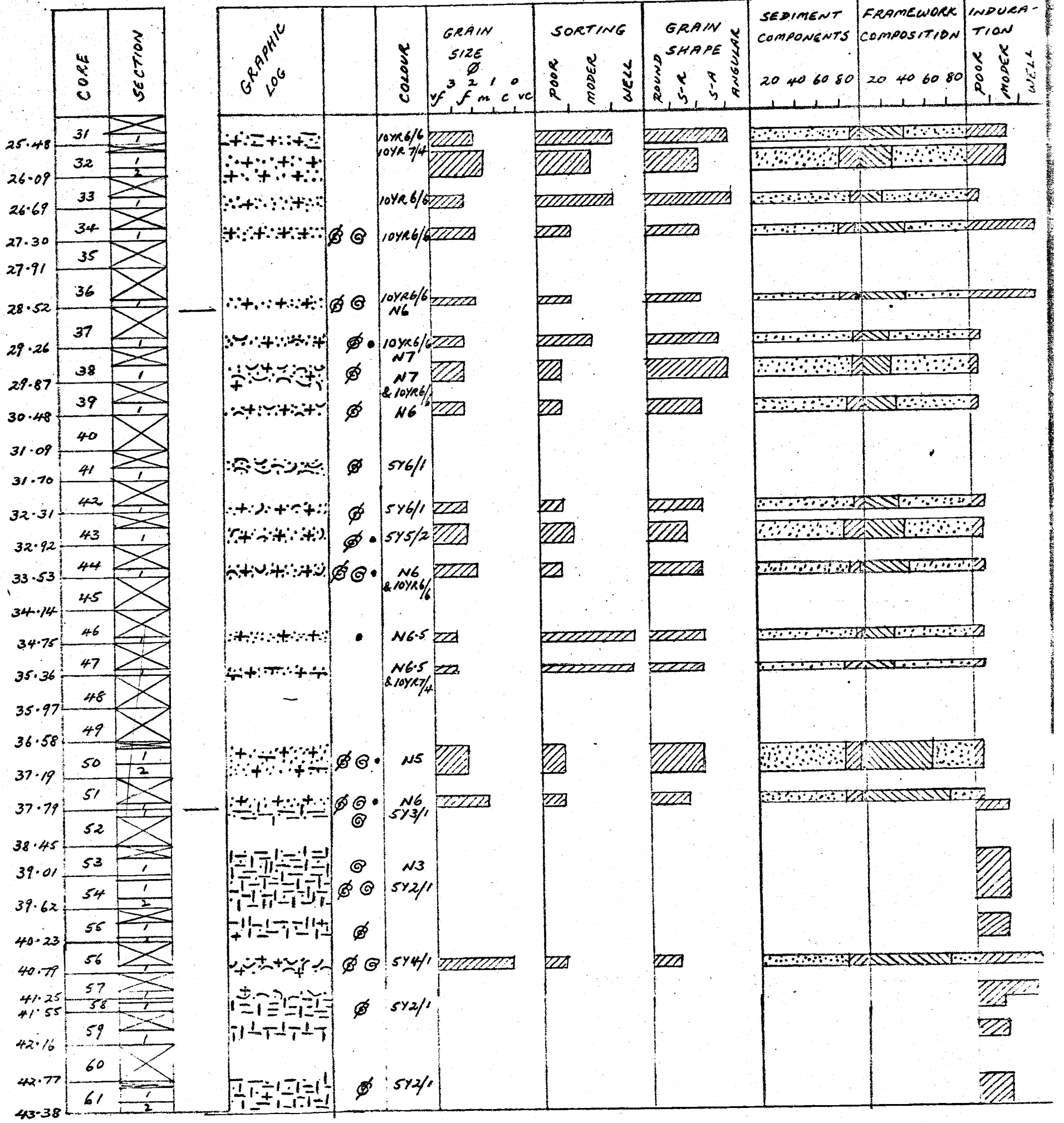


NARRACOORTE # 39

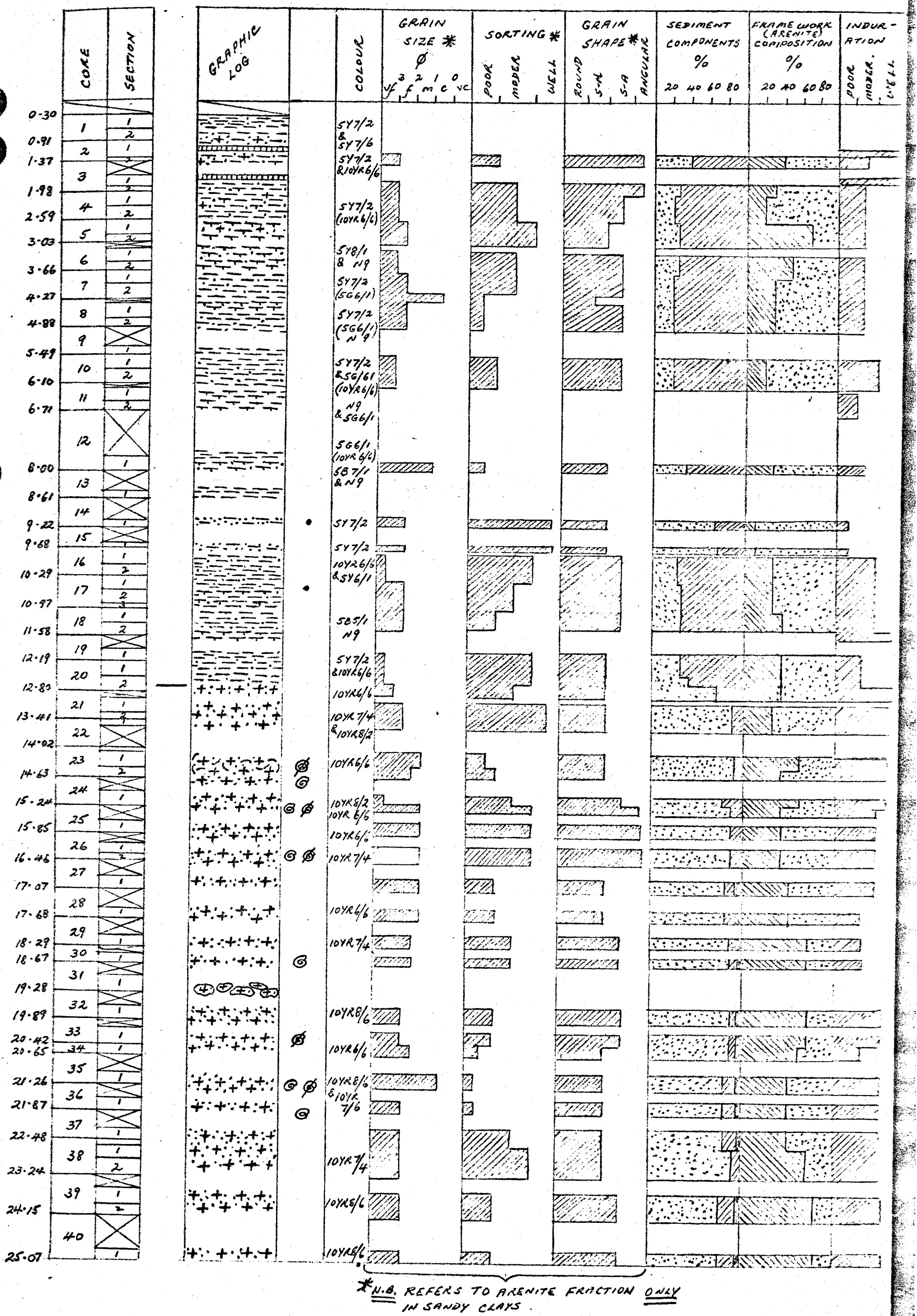
CORE | SECTION | GRAPHIC LOG | COLOUR | GRAIN SIZE ø 3 2 1 0 (vf f m c vc) | SORTING (POOR MODER WELL) | GRAIN SHAPE (ROUND S-R S-A ANGULAR) | SEDIMENT COMPONENTS % 20 40 60 80 | FRAMEWORK COMPOSITION % 20 40 60 80 | INDURATION (POOR MODER WELL)

0·61	1	1		10YR6/6						
		2								
1·22	2	X		10YR6/6						
		1		5YR 5/6						
	3	1		10YR 6/6						
2·14		2		10YR7/6						
	4	X								
		1								
		2		10YR7/4						
3·20		3								
	5	X								
		1								
		2		10YR7/4						
4·57		3								
	6	X								
		1								
		2		10YR6/6						
		3								
5·79		4								
	7	1								
		2		10YR6/6						
		3								
		4	Mn							
7·09		5	Ø Mn							
	8	1								
		2								
		3		5YR5/6						
		4								
		5	Y							
8·61		X								
	9	1								
		2	Fe, Mn	5YR5/6						
		3		& 10YR6/6						
		4								
10·13		X								
	10									
		1		10YR6/6						
11·66		X								
	11									
13·18		X								
	12	1		10YR7/4						
13·59		X								
	13	1		10YR7/4						
14·20		2								
	14	X								
14·81		X								
	15	1		10YR6/6						
15·42		X								
	16	1		10YR6/6						
16·03		X								
	17	1		10YR7/6						
16·64		X		10YR7/4						
	18	1								
17·25		2								
	19	1		10YR7/3						
17·85		2								
	20	X								
18·47		X								
	21	1		10YR6/6						ALT
19·07		2								
	22	X								
19·68		1		10YR6/6						
	23	X								
		1		10YR6/6						
20·29	24	1								
		2		10YR6/6						
20·90	25	X								
		1		10YR6/6						
21·51	26	X								
		1		10YR6/6						
22·12	27	X								
		1		10YR7/4						
22·73	28	X								
23·34	29	X								
24·26	30	X								
		1		10YR8/2						
24·86		X		10YR7/4						

NARACOORTE #39 (CONT.)



NARACOORTE # 40



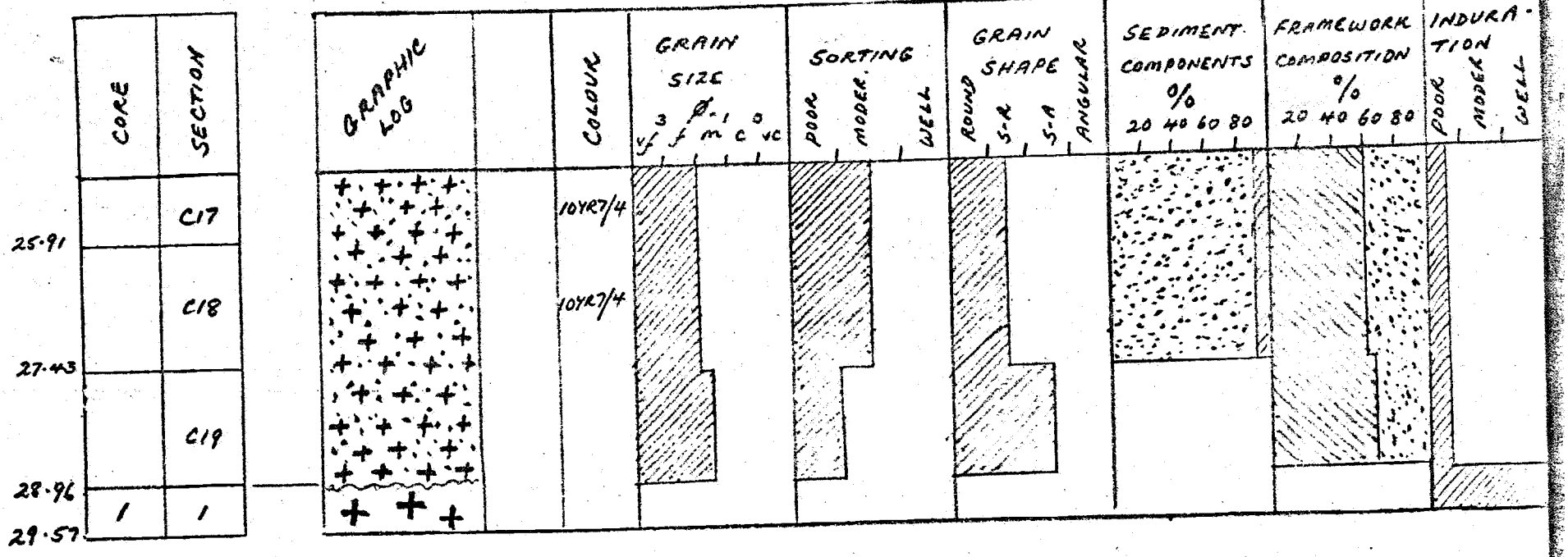
*N.B. REFERS TO ARENITE FRACTION ONLY IN SANDY CLAYS.

NARACOORTE # 41

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE ϕ $v_f\ f\ m\ c\ vc$	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R R-S ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDURATION POOR MODER WELL
	C1		N9						
	C2		5YR6/4						
	C3		5YR6/4						
	C4		10YR7/4						
	C5		10YR7/4						
	C6		10YR7/4						
	C7		10YR7/4						
	C8		10YR7/4						
CUTTINGS	C9		10YR7/4						
	C10		10YR6/6						
	C11		10YR6/6						
	C12		10YR7/4						
	C13		10YR7/4						
	C14		10YR7/4						
	C15		10YR7/4						
	C16		10YR7/4						
	C17								

1·52
3·05
4·57
6·01
7·62
9·14
10·67
12·19
13·72
15·24
16·76
18·29
19·81
21·34
22·86
24·38

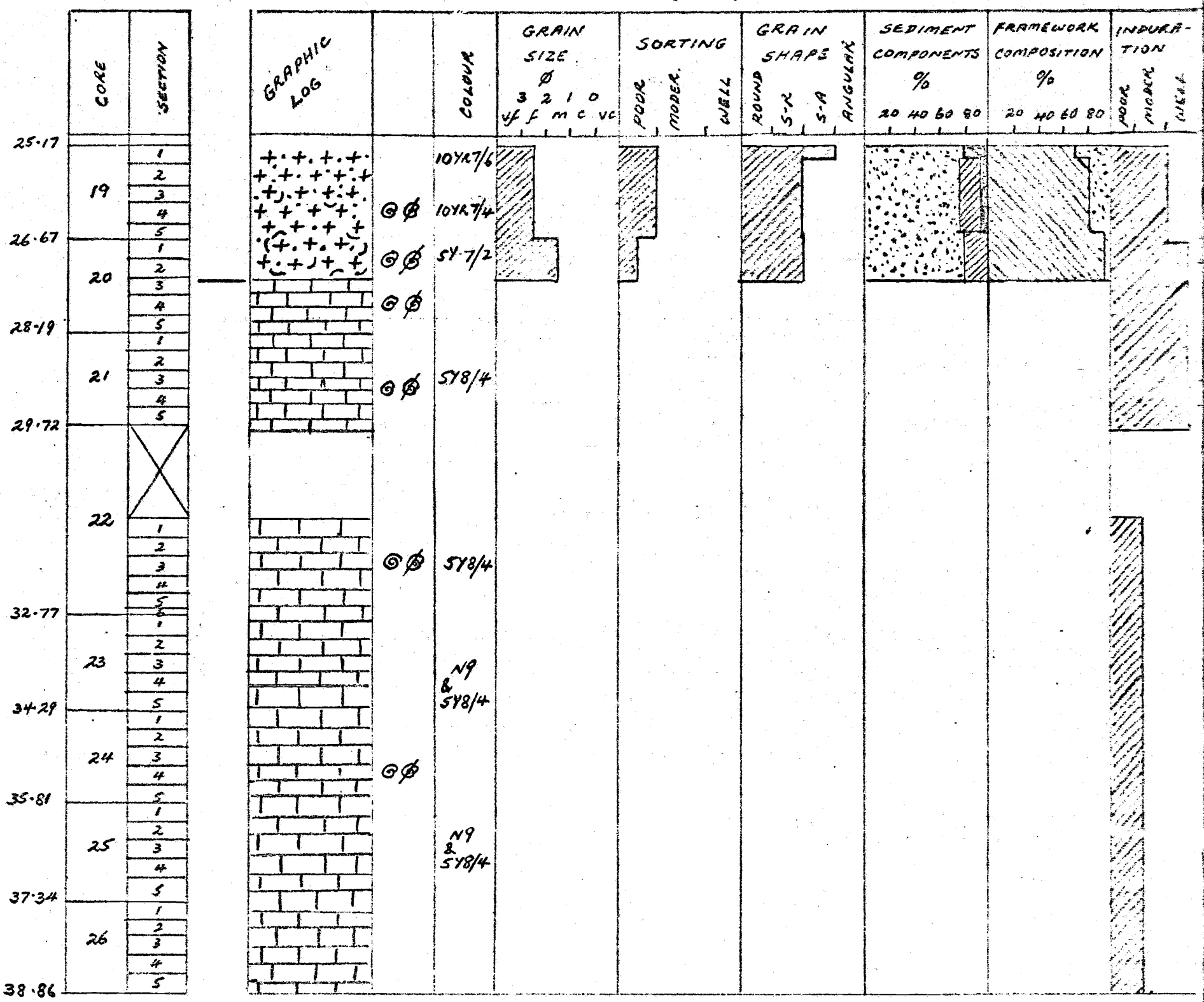
NARACOORTE #41 (CONT.)



NARACOORTE # 42

CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE ϕ 3 2 1 0 vf f m c vc	SORTING POOR MODER. WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION 20 40 60 80	INDURA-TION POOR MODER WELL
0.30				N9						
1	1			10YR8/6						
0.91	2									
1.52	1									
2	1									
2.13	2			10YR7/6						
3	1									
2.74	2			10YR7/4						
4	1									
3.35	2			5YR7/6						
5	1									
6	1		- MN	10YR7/6						
	2									
	3									
	4									
4.70	5									
7	1			10YR6/6						
	2									
	3									
	4									
	5									
	6			10YR7/4						
	7									
	8									
	9		X							
	10									
7.75	1			10YR7/4						
8	1		X							
	2									
	3									
	4									
	5			10YR6/6						
	6									
	7									
	8			10YR7/4						
10.79										
9	1			5YR8/4 & 5YR6/4						
	2									
	3									
12.32										
10	1			10YR8/2 (5YR6/4)						
	2									
13.11										
11	1			5YR5/6 & N9						
	2									
	3									
	4									
14.63	5									
12	1			5YR5/6						
	2									
	3			10YR6/6						
16.15										
13	1			5YR5/6 10YR8/6 & N9						
	2									
	3									
	4		◎							
17.68	5									
14	1			10YR6/6						
	2		◎							
	3		X							
	4									
19.20										
15	1			10YR6/6						
	2									
	3									
	4									
20.73										
16	1			10YR6/6						
	2									
	3									
	4									
	5									
22.10										
17	1			10YR6/6						
	2									
	3									
	4									
23.62	5									
18	1		◎◎	10YR6/6						
	2									
	3									
	4									

NARACOORTE # 42 (CONT.)



NARACOORTE #43

CORE	SECTION	GRAPHIC LOG	COLOUR
0.30			
1	1		N8
	2		
0.91			
2	1		5Y8/1
	2		
1.52			
3	1		N9
	2	Fe-Mn?	& 5Y8/1
2.13			(5Y6/1)
4	1		
	2		N9
	3		
	4		N9
3.66			& N8
5	1		N9
	2		
	3		N9
	4		
5.18			10Y6/2
6	1		N9
	2	Fe-Mn?	
5.79			
7	1		5Y8/1
	2		
6.71			
8	1		
	2		
7.92			
9	1		
	2		5Y8/1
	3		
	4		
9.02			
10	1		N8
	2		
10.66			
11	1		
	2		
11.58			N9
12	1		(5Y8/1)
12.19			10YR6/1
13	1		5Y 7/2
	2		10Y6/2
	3		&
13.11			10YR6/6
14	1		5Y7/2
	2		(10YR6/6)
	3		
	4		10YR6/6
14.55			&
15	1		5Y 7/2
	2	Fe	10R4/6
16.08			(10Y6/2
16	1		5Y 7/6
	2	Fe	10R4/6
17.60			&
17	1		10Y6/2
		@ Ø	5Y8/4
19.13			
18	1	@	5Y8/4
19.74			
19	1	@ Ø	5Y8/4
20.33	2		
20	1		
20.88			
21	1		N9
21.49	2		
22	1		
	2		N9
	3		(10YR6/6)
22.71			
23	1		
	2		N9
23.93			
	1		
	2		
	3		
24	4		

GRAIN SIZE — Ø: 3 2 1 0 — vf f m c vc

SORTING — POOR MODER WELL

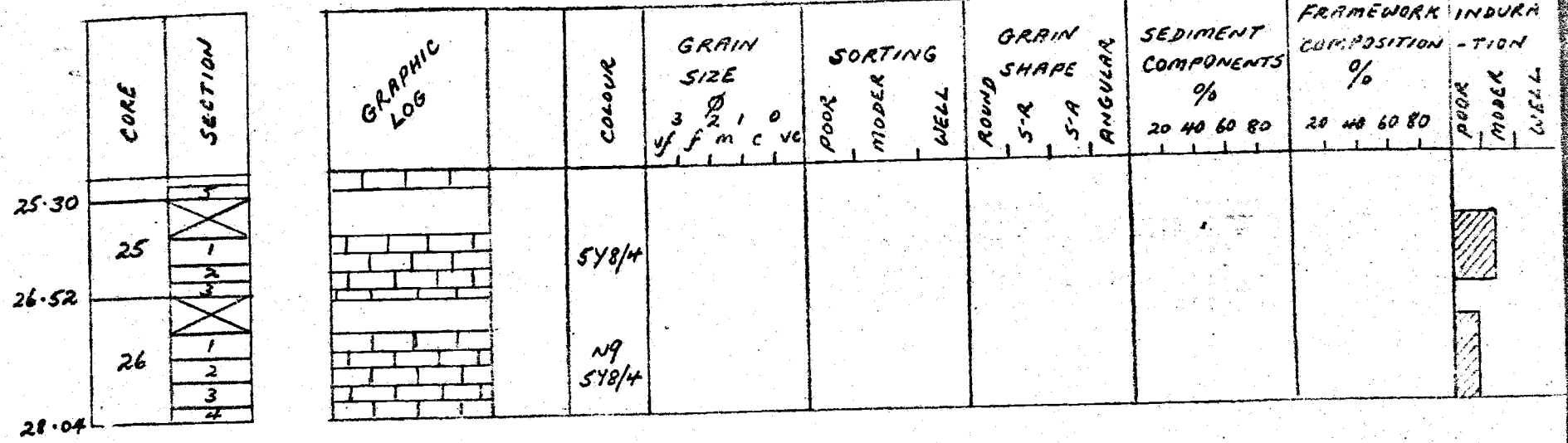
GRAIN SHAPE — ROUND S-R S-A ANGULAR

SEDIMENT COMPONENTS — % — 20 40 60 80

FRAMEWORK COMPOSITION — % — 20 40 60 80

INDURATION — POOR MODER WELL

NARACOORTE 43 (CONT.)

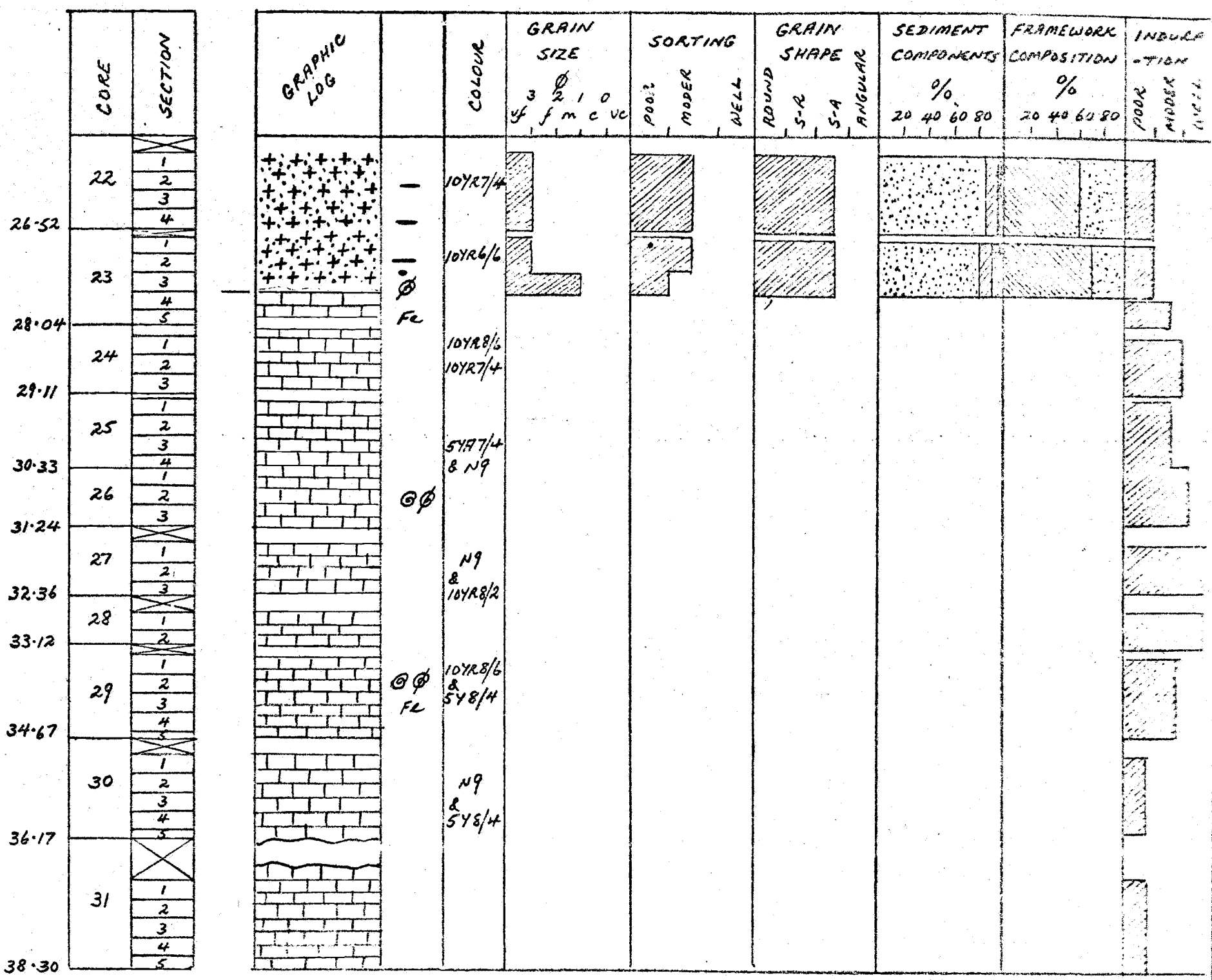


NARRACOORTE #44

CORE	SECTION		GRAPHIC LOG		COLOUR	GRAIN SIZE ϕ 3 2 1 0 (vf f m c vc)	SORTING (POOR – MODER. – WELL)	GRAIN SHAPE (ROUND – S-R – S-A – ANGULAR)	SEDIMENT COMPONENTS % 20 40 60 80	FRAMEWORK COMPOSITION % 20 40 60 80	INDUR-ATION (POOR – MODER – WELL)
		0·30									
1	1	0·91			10YR6/6						
2	1				5YR6/4						
	2	1·52									
3	1				10YR6/6						
	2	2·13									
4	1				10YR6/6						
	2										
	3				10YR6/6						
	4	3·66		K							
5	1			K	10YR6/6						
	2										
	3										
	4			K							
	5	5·18			10YR6/6						
6	1										
	2										
	3										
	4				10YR6/6						
	5										
		6·71		K							
7	1				10YR7/4						
	2										
	3										
	4	7·77									
8	1										
	2			K	10YR6/4						
	3										
	4										
	5	9·30									
9	1										
	2										
	3			K	10YR6/4						
	4	10·82									
10					10YR6/6						
	1										
	2	12·34									
11	1										
	2										
	3			K	10YR6/4						
	4										
	5	13·72									
12	1										
	2			K	10YR6/4						
	3										
	4	14·93									
13	1										
	2										
	3				10YR6/4						
	4				10YR6/6						
	5	16·46									
14	1										
	2										
	3				10YR6/4						
	4	17·98									
15	1										
	2				10YR6/4						
	3	19·51									
16	1										
	2										
	3										
	4	21·03									
17	1				10YR6/6 & 10YR7/4						
	2	21·54									
18	1										
	2	23·06			10YR6/6 & 10YR7/4 5Y7/2						
19	1	23·22									
20	1	23·57									
21	1			—	10YR6/6 & 10YR7/6						
	2										
	3										
	4										
	5	25·01									

PLT

NARACOORTE # 44 (CONT.)



N. PARACOORTE #45

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE (Ø: vf 3, f 2, m 1, c 0, vc)	SORTING (P. SOR, MODER, WELL)	GRAIN SHAPE (ROUND, S-R, S-A, ANGULAR)	SEDIMENT COMPONENTS % (20 40 60 80)	FRAMEWORK COMPOSITION % (20 40 60 80)	INDURATION (POOR, MODER)
0·31			N9						
0.91	1		10YR7/4 & 10YR8/6						
1·52	2		10YR7/4						
3·05	3		5YR5/6 & 10YR7/4						
4·57	4		10YR6/4						
6·10	5		10YR6/4						
7·62	6		10YR6/6						
9·14	7		10YR6/6						
9·75	8								
10·36	9		10YR6/6						
10·97	10								
11·58	11		10YR6/4						
12·19	12		10YR6/6						
13·72	13		10YR6/6						
15·24	14		10YR6/6						
16·76	15		5Y8/1 & 10YR6/6						
18·29	16		10YR6/6 & 5Y8/1						
19·81	17		10YR7/6 & 10YR6/6						
21·34	18		N9 & 5Y8/4 & 5Y8/4						
22·86	19		N9 & 5Y8/4						
24·38	20		N9 & 5Y8/4						

NARACOORTE #45 (CONT.)

	CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE - Ø (3 2 1 0; uf f m c vc)	SORTING (POOR MODER WELL)	GRAIN SHAPE (ROUND S-R S-A ANGULAR)	SEDIMENT COMPONENTS % (20 40 60 80)	FRAMEWORK COMPOSITION % (20 40 60 80)	INDURATION (POOR MODER WELL)
	21	3			N9 & 5Y8/4						
		4									
25.91		5									
	22	1									
		2			N9						
		3									
		4									
27.43		5									