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No. 2536

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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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)

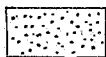
REPORT:

Dept. of Services & Property project.

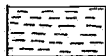
Robe - Naracoorte Coastal Survey.

BORE HOLES.

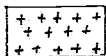
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32a, 33, 34. pgs. (73-110)



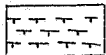
Quartzose sand/sandstone



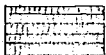
clay/claystone



calcarenite



calcituffite



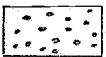
calcrete



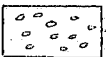
soil



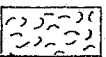
chert



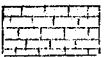
Quartz granules + pebbles



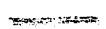
calcrete pebbles



shell grit



Gambier Limestone



Ferruginised surface

⊙ Fossils

⊘ Fossil fragments

◻ Rhombs

⋈ Root fragments, Plant fibres

⋈ Cross bedding, low angle

≡ wavy lamination

• Heavy minerals, opaque grains

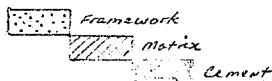
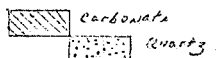
Fe Iron staining

Mn Manganese staining

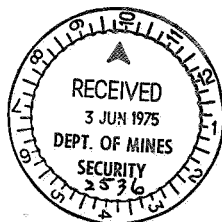
P Pyrite

Gl Glauconite

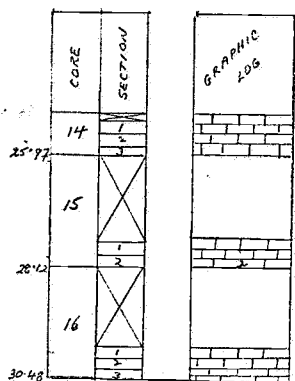
- mica

SEDIMENT COMPONENTSFRAMEWORK COMPOSITIONINDURATION:

alt Alternating indurated + non-indurated bands



CORE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS				FRAMEWORK COMPOSITION				NOTES
				$\frac{1}{2}$ ϕ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$ $\frac{1}{64}$	FINE MODER WELL	ROUND S-R S-A ANGULAR	% 20 40 60 80	% 20 40 60 80							
076	C1		10YR 7/2												
1-52	C2		10YR 7/4												
2-28	C3		10YR 7/4												
3-05	C4		10YR 7/4												
3-81	C5														
4-42	C6														
1	1		10YR 7/4												
	2														
	3														
	4														
	5														
	6														
	7														
7-62															
7-97															
2	1		10YR 7/4												
	2														
	3														
	4														
	5														
3	1		10YR 8/2												
	2		10YR 7/4												
	3														
	4														
10-67			10YR 8/2												
11-62			10YR 8/2												
12-62			10YR 7/4												
12-62															
13-26			10YR 7/4												
6	1														
	2														
	3														
	4														
	5														
	6														
14-69			10YR 7/4												
7	1		10YR 7/4												
	2														
	3														
	4														
	5														
	6														
17-04															
17-65			10YR 7/4												
9	1		N 9												
	2		10YR 8/6												
	3		10YR 8/6												
19-32			10YR 8/6												
19-93			10YR 8/6												
11	1		N 8												
	2														
20-72			N 8												
12	1		N 8												
	2														
21-46															
13	1		N 8												
	2														
	3														
	4														
	5														
	6														
24-30															
14															



Chet

CONE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION
				3 2 1 0 F F M C VC				
					ROUND S-R	ANGULAR S-A	20 40 60 80	20 40 60 80
1-20	1	1-2	SYR 8/10					
1-83	2	3	SYR 8/10					
2-28	3	4	SYR 8/10					
2-89	4	1	N7					
3-50	5	2	N6					
4-11	6	3	N5					
4-72	7	4	N6					
5-16	8	5	N6					
5-79	9	6	N6					
6-40	10	7	N6					
6-84	11	8	SYR 8/10					
7-45	12	9	SYR 8/10					
8-05	13	10	SYR 8/10					
8-56	14	11	SYR 8/10					
9-17	15	12	N8					
9-62	16	13	SYR 8/10					
12-21	17	14	N9					
13-11	18	15	N9					
13-90	19	16	N9					
15-93	20	17	N9					
16-97	21	18	N9					
17-52	22	19	N9					
19-05	23	20	N9					

CORAS	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INITIAL
				3 2 1 0 W F M C VL					
0					POOR	ROUND	20 40 60 80	20 40 60 80	
0.76	C1	+	10YR 8/2						
1.52	C2	+	10YR 8/2						
2.28	C3	+	10YR 8/2						
3.05	C4	+	10YR 8/2						
3.81	C5	+	10YR 8/2						
4.57	C6	+	10YR 8/2						
5.33	C7	+	10YR 8/2						
6.10	C8	+	10YR 8/2						
6.86	C9	+	10YR 8/2						
7.62	C10	+	10YR 8/2						
8.38	C11	+	10YR 8/2						
9.04	C12	+	10YR 8/2						
10.41	1	+	10YR 8/2						
12.39	2	+	10YR 8/2						
15.07	3	+	10YR 7/4						
16.89	4	+	10YR 8/2						
19.71	5	+	10YR 8/2						
20.08	6	+	10YR 8/2						
21.39	7	+	10YR 8/2						
21.84	8	+	10YR 8/2						
24.79	9	+	10YR 8/2						
	10	+	10YR 8/2						

CORE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE 3 2 1 0 φ F M C V	SORTING POOR MODER. WELL	GRAIN SHAPE ROUND S-R 5-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK IN COMPOSITION %	FRAMEWORK IN COMPOSITION %
							20 40 60 80	20 40 60 80	20 40 60 80
25	10	2	10YR 8/6	10YR 8/6					
25.63	3	+	10YR 8/6	10YR 8/6					
	11	1	10YR 8/6	10YR 8/6					
	2	+	10YR 8/6	10YR 8/6					
	3	+	10YR 8/6	10YR 8/6					
	4	+	10YR 8/6	10YR 8/6					
	5	+	10YR 8/6	10YR 8/6					
27.77	6	+	10YR 8/6	10YR 8/6					
	7	+	10YR 8/6	10YR 8/6					
	8	+	10YR 8/6	10YR 8/6					
	9	+	10YR 8/6	10YR 8/6					
	10	+	10YR 8/6	10YR 8/6					
28.11	11	+	10YR 8/6	10YR 8/6					
	12	+	10YR 8/6	10YR 8/6					
	13	+	10YR 8/6	10YR 8/6					
30.33	14	+	10YR 8/6	10YR 8/6					
	1	+	10YR 8/6	10YR 8/6					
	2	+	10YR 8/6	10YR 8/6					
31.93	15	+	10YR 8/6	10YR 8/6					
	3	+	10YR 8/6	10YR 8/6					
	4	+	10YR 8/6	10YR 8/6					
	5	+	10YR 8/6	10YR 8/6					
	6	+	10YR 8/6	10YR 8/6					
33.98	7	+	10YR 8/6	10YR 8/6					
	16	+	10YR 8/6	10YR 8/6					
	1	+	10YR 8/6	10YR 8/6					
	2	+	10YR 8/6	10YR 8/6					
37.34	3	+	10YR 8/6	10YR 8/6					

PENOLA 5

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE # 3 2 1 0 4 f m c vc	SORTING POOR MIDDL BETTER	GRAIN SHAPE ROUND S-A S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDURATION % MOUL MOUL WELL
0.45	1		5YR 7/2						
0.61	2								
1.22	3								
1.83	4								
2.44	5								
3.29	6								
3.50	7								
4.04	8								
4.65	9								
5.26	10								
5.87	11								
6.33	12								
6.79	13								
6.98	14								
7.42	15								
10.72	16								
12.50	17								
15.55	18								
15.90	19								
19.03	20								
	21								

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %
				3 2 1 0 f m c v				
1	1		N9 N9 (N8) N7 N7 N7 N8	3 2 1 0 f m c v	POOR POOR WELL	ROUND S-A S-A ANGULAR	20 40 60 80 20 40 60 80	20 40 60 80 20 40 60 80
2	1							
3	1							
4	1							
5	1							
6	2							

PENOLA No 8A (continued)

CORE		SECTION	GRAPHIC LOG
25-50	12	1	
		2	
		3	
		4	
		5	
		6	
27-48	13	7	
		8	
		9	
		10	
		11	
		12	
29-49	14	13	
		14	
		15	
		16	
		17	
		18	
32-46	15	19	
		20	
		21	
		22	
		23	
		24	
34-14	16	25	
		26	
		27	
		28	
		29	
		30	

[illegible]

Qmc

PENONA 10 (cid)

Elev	Section	Graphic Log	Gravel	Grain Size 3 2 1 0 of 1 m, c, v	Sorting Coarse Medium Fine	Grain Shape Round Sub- Angular	Framework Components %	Sediment Composition %
28.15	Bank	B11	GL	57/1				
28.70	Bank	B12	GL	57/1				
29.72	Bank	B13	GL	57/1				
30.45		32		10-57/2 57/1 57/2 N7				
31.70		33						
32.00								

Graphic Log

28.1

Gravel

Grain Size

Sorting

Grain Shape

Framework Components

Sediment Composition

C.C.

PENOLA

No. 11.

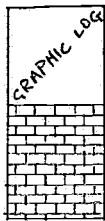
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	CORE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE 3 2 1 0 4 f m v c	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDICATOR POOR MODER WELL
0	1	1								
0.36	2	2								
0.96	3	3								
1.32	4	4								
1.93	5	5								
2.54	6	6								
3.15	7	7								
3.38	8	8								
3.99	9	9								
4.60	10	10								
5.21	11	11								
6.11	12	12								
6.40	13	13								
7.01	14	14								
7.62	15	15								
8.23	16	16								
9.29	17	17								
9.90	18	18								
10.51	19	19								
11.12	20	20								
12.34	21	21								
15.51	22	22								
16.95	23	23								
16.56	24	24								
17.17	25	25								
17.77	26	26								
19.45	27	27								
21.69	28	28								
24.96	29	29								

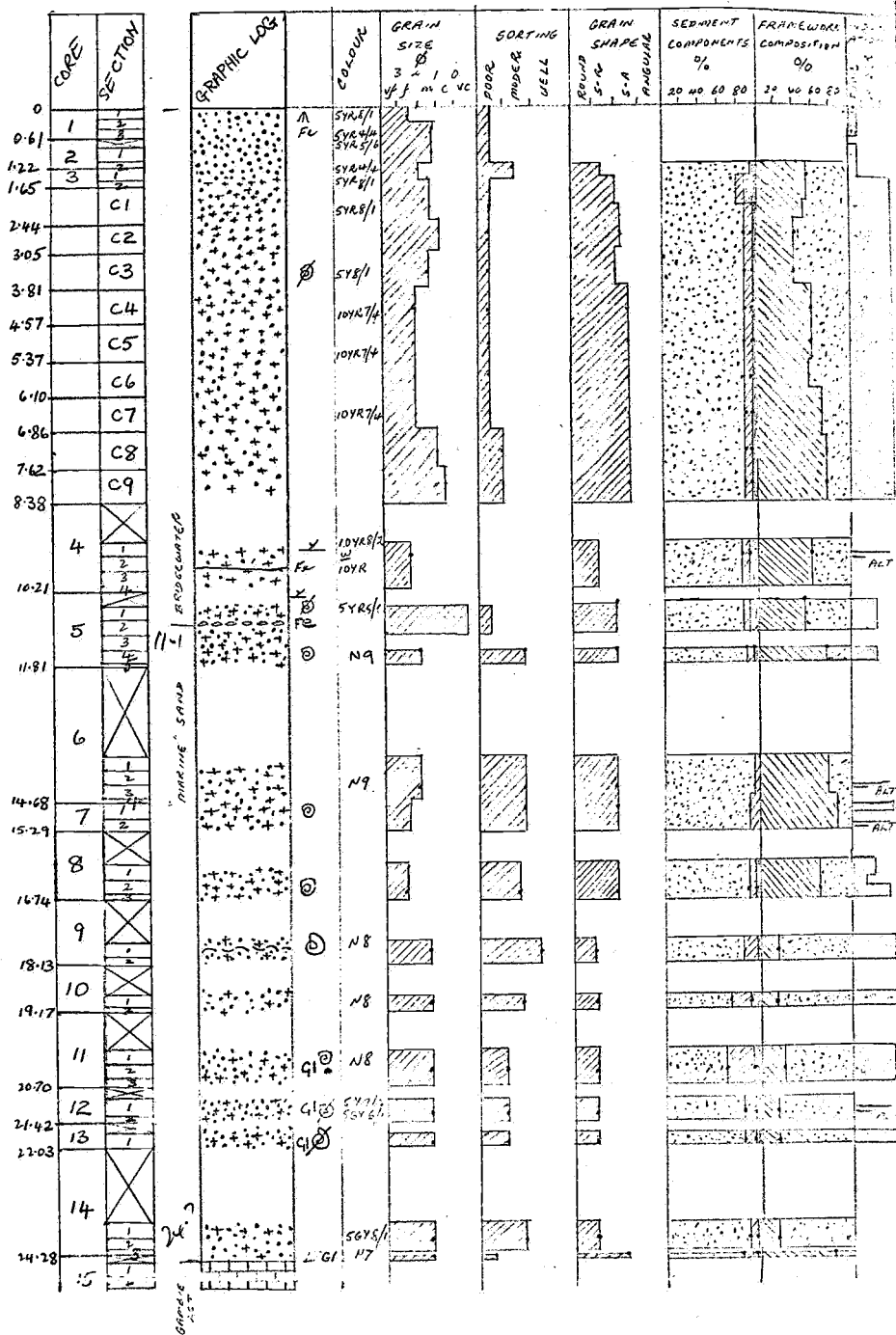
PENOLA NO. 11 (CONT.)

27-28

CORE	SECTION
	4
	5
	6
	7
	8
	9
	10
	11



PENOLA 12



PENOLA No 12A (CONT.)

CORE		SECTION	GRAPHIC LOG
25-45	15	3	
		4	
	16	1	
		2	
3			
4			
5			
6			
7			
8			
9			
28-50	17	1	
		2	
		3	
		4	
		5	
		6	
		7	
30-74	18	1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	

Core	Section	Stratigraphic Log	Color	Grain Size 1/2 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Soil Type Fine Medium Coarse	Grain Shape Round Sub-round Angular	Soil Moisture Content %	Fracture Content %
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	B1		GL					
21	B2							
22	B3							
23	B4							
24	B5							
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
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83								
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86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96								
97								
98								
99								
100								

Core	Section	Grain Log	Core	Grain Log			Grain Log			Grain Log			Grain Log			Grain Log								
				3	2	1	0	3	2	1	0	3	2	1	0	3	2	1	0					
0.76	1																							
1.52	2																							
2.29	3																							
3.05	4																							
3.81	5																							
4.57	6																							
5.33	7																							
6.10	8																							
6.86	9																							
7.62	10																							
7.67	11																							
8.43	12																							
8.47	13																							
8.53	14																							
9.14	15																							
9.83	16																							
10.67	17																							
11.43	18																							
12.19	19																							
12.95	20																							
13.71	21																							
14.01	22																							
14.58	23																							
15.14	24																							
16.00	25																							
16.76	26																							
17.53	27																							
18.24	28																							
18.75	29																							
19.05	30																							
19.81	31																							
19.84	32																							
20.19	33																							
20.52	34																							
20.98	35																							

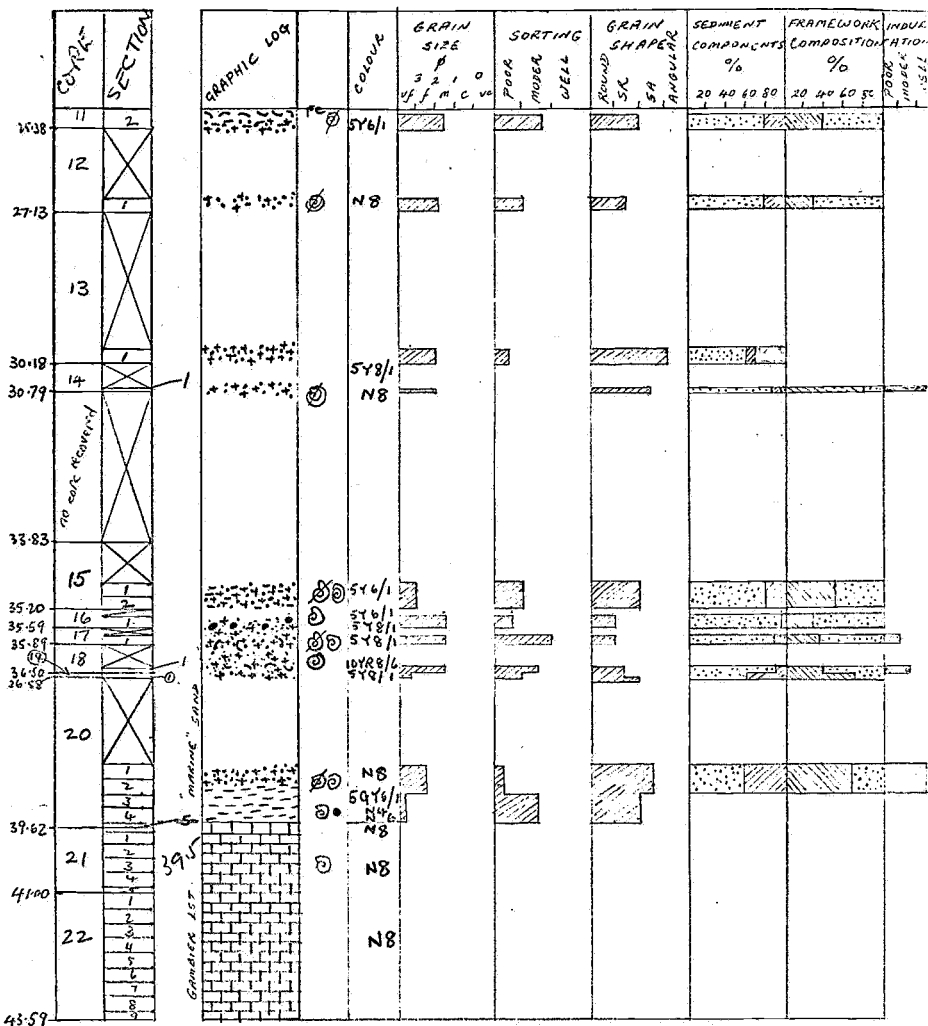
20.8.

PENOLA 15

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE φ 2 1 0 4 f m c v	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 FOUR HIGHER 1-5-11
0.39	1		10YR 6/2						
0.84	C1		10YR 6/4						
0.99	C2		5YR 5/1						
1.22	C3		5YR 5/1						
1.67	C4		10YR 6/2						
2.13	C5								
2.44	C6								
3.96	2		5YR 3/2						
5.36	3		5YR 5/1						
7.24	4		N 9						
9.60	5		N 8						
12.50	6		5Y 6/1						
13.41	7		5Y 6/1						
15.17	8		5Y 6/1						
16.69	9		10YR 6/6						
18.67	10		N 8						
18.74	11								
20.50	12								
21.64	13								
24.53	14								

CORE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE Ø 3 2 1 0 uf f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR- ATION
							20 40 60 80	20 40 60 80	POOR MODER WELL
0									
cuttings	C1		N7						
1-52									
cuttings	C2		5YR7/2						
3-85									
cuttings	C3		10YR7/4						
4-57									
1	1		5YR5/6						
	2		10YR5/2						
	3		5YR5/6						
	4		2 N8						
	5		5YR5/6						
	6								
	7		5YR5/6						
	8								
	9								
7-62			Mn						
2	1		N8						
	2		5YR5/6						
	3		5YR5/6						
	4								
10-06									
3	1		10YR8/2						
4									
13-41									
5	1		5YR4/4						
14-01			5YR7/4						
2									
6									
16-46									
7	1		5YR5/6						
16-97			(5Y6/1)						
			5YR5/6						
8									
	1		10YR6/6						
	2		10YR8/2						
	3								
	4								
	5								
20-09			Mn-Fe						
9									
21-99									
10	1		10YR4/1						
	2		10YR8/2						
22-76									
	1		N9-N8						
11									
			Fe						

"SAND" SAND



Qp-4 PENOLA No. 17.

Core	Section	Grain Log	Core	Grain Size	Sorting	Grain Shape	Sediment Cont. %		Firmness Cont. %	
				3 2 1 0			%	%	%	%
1	1		10464							
2	2		10465							
3	3		10466							
4	4		10467							
5	5		10468							
6	6		10469							
7	B1		10470							
8	B2		10471							
9	B3		10472							
10	B4		10473							
11	B5		10474							
12	B6		10475							
13	B7		10476							
14	B8		10477							
15	B9		10478							
16	B10		10479							
17	B11		10480							
18	B12		10481							
19	B13		10482							
20	B14		10483							
21	B15		10484							
22	B16		10485							
23	B17		10486							
24	B18		10487							
25	B19		10488							
26	B20		10489							
27	B21		10490							
28	B22		10491							
29	B23		10492							
30	B24		10493							
31	B25		10494							
32	7		10495							
33	8		10496							

PENOWA 18

DEPTH	CORRECTION	GRAPHIC LOG	GRAIN SIZE 3 2 1 0 ✓ 2 1 0 0	SOFTING POOR MEDIUM WELL	GRAIN LIMIT 5-2 1-0 0-0	PERCENTAGE CONTAMINATION %	PERCENTAGE COMPOSITION %
0-1	1	+	10-15				
0-41	2	+	10-15				
1-55	3	+	10-15				
2-13	4	+	10-15				
2-74	5	+	10-15				
3-35	6	+	10-15				
3-46	7	+	10-15				
4-57	8	+	10-15				
5-18	9	+	10-15				
5-49	10	+	10-15				
6-10	11	+	10-15				
6-71	12	+	10-15				
7-90	13	+	10-15				
8-47	14	+	10-15				
10-49	15	+	10-15				
11-88	16	+	10-15				
12-83	17	+	10-15				
14-35	18	+	10-15				
15-66	19	+	10-15				
17-09	20	+	10-15				
18-44	21	+	10-15				
19-70	22	+	10-15				
20-12	23	+	10-15				
20-37	24	+	10-15				
21-70	25	+	10-15				
22-12	26	+	10-15				

Part # 18A.

Core	Section	Graphic Log	Core	Grain Size	Sorting	Grain Shape	Sediment Framework	
							Component %	Character %
1	2	3	4	5	6	7	8	9
1								
2								
3								
4								
5								

123000-10 (10/11)

Elev	Core	Section	Grain Log	Grain	Grain Size # 3 2 1 0 100 60 40 20	Sorting Poor Med Well	Grain Shape Round Sub- Angular	Sediment Composition %	Framework Composition %
25.00	6	X							
25.40	7	X							
25.46		1							
		2							
27.48		X							
	8	X							
		1							
		2							
		3							
		4							
		5							
		6							
33.24	9	X							
		1							
		2							
		3							
35.05		X							
	10	X							
		1							
		2							
		3							
		4							
		5							
		6							
		7							
38.00		X							

Gravel Zone

30.0

Gr

577/2

5-16/1

N7

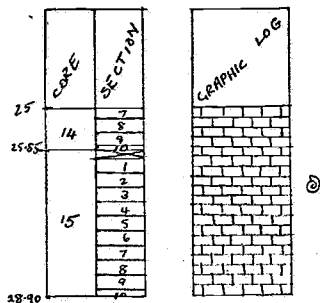
Fe

N6

N7

N7

100/43



DEPTH	CORE	SECTION	GRAPHIC LOG	COLOR	GRAIN SIZE	POOR MUD	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDU- STRY
					3 2 1 0 F F M C W						
0											
0.152		C1		10YR 7/4							
3.05		C2		10YR 7/4							
4.82	1	1		10YR 7/4							
7.26	2	2		10YR 6/6							
7.62		C3		10YR 7/4							
7.93		C4		10YR 7/4							
8.53		C5		10YR 7/4							
9.39		C6		10YR 7/4							
11.78	3	3		10YR 7/4							
12.44	4	4		10YR 7/2							
14.71	5	5		10YR 7/4 10YR 6/6							
16.00	6	6		5Y 4.5/6 10YR 7/4							
17.15	7	7		Fe-Mn 10YR 7/4 Fe 10YR 6/6							
19.28	8	8		Fe-Mn 10YR 6/6 10YR 7/4 10YR 8/2							
20.50	9	9		Fe-Mn 10YR 6/6							
22.25	10	10		Fe-Mn 10YR 6/4							
24.74	11	11		10YR 8/2							

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENT %	FRAGMENTATION COMPOSITION %
				3/16" to 1/2"				
15	12		N8					
26.77	1		10YR8/2					
	2							
	3							
28.90	13							
	1		10YR7/4					
	2		10YR8/2					
	3		5Y5/2					
	4		5Y6/1					
30.68	14							
	1		5Y7/4					
	2							
	3		5Y7/4					
	4		5Y7/4					
	5							
	6							
	7							
	8							
	9							
	10							
33.66	15							
	1		5Y7/4					
	2		5Y5/2					
	3		5Y7/4					
	4							
	5							
35.79	16							
	1		5Y6/4					
	2							
	3							
	4							
	5							
	6							
37.57	17							
	1		5Y7/2					
	2							
	3							
	4							
	5							
39.77	18							
	1							
	2							
	3							
	4							
41.38	19							
	1							
	2							
	3							
	4							
44.58	20							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							

CORE	SECTION	GRAPHIC LOG	COROLL	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDEX
				ϕ mm cm m					
					POOR MODER WELL	ROUND S-A S-A ANGULAR	% 20 40 60 80	% 20 40 60 80	POOR MODER WELL
3.66									
3.96	1								
	2								
5.18	3								
5.64	4								
6.40	5								
8.03	6								
10.00	7								
12.29	8								
14.88	9								
17.83	10								
19.08	11								
20.73	12								
22.77	13								

COR#	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE φ 3 2 1 0 4 f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	ANALYSIS INDEX C-111
							20 40 60 80	20 40 60 80	
0-0									
0-96	1	1							
1-04	2	2							
1-70	3	3							
2-31	4	4							
2-42	5	5							
3-53	6	6							
4-55	7	7							
5-87	8	8							
6-40	9	9							
7-50									

10

10

Person 25.

DATE	SECTION	GRAVIMETRIC LOG	COLOR	GRAIN SIZE #3 #2 #1 #0 or P M C A	SORTING Fines #100 #200	GRAIN SHAPE #1 #2 #3 #4 IRREGULAR	SANDWASH CONTAMINATION %	FRAMEWORK CONFORMATION %	REMARKS
0	1	0.8							
0.70	2								
1.51	3								
2.23	Barley B1								
3.05	Barley B2								
3.75	4								
4.17	Barley B3								
5.33	Barley B4								
6.10	Barley B5								
6.86	Barley B6								
7.52	Barley B7								
8.36	5								
8.74	6								

8. K.

25901501

[illegible]

QPCP

Page # 27

		General Notes	General Notes	General Notes	General Notes	General Notes
		1	2	3	4	5
100	1	100	100	100	100	100
200	1	200	200	200	200	200
300	1	300	300	300	300	300
400	1	400	400	400	400	400
500	1	500	500	500	500	500
600	1	600	600	600	600	600
700	1	700	700	700	700	700
800	1	800	800	800	800	800
900	1	900	900	900	900	900
1000	1	1000	1000	1000	1000	1000
1100	1	1100	1100	1100	1100	1100
1200	1	1200	1200	1200	1200	1200
1300	1	1300	1300	1300	1300	1300
1400	1	1400	1400	1400	1400	1400
1500	1	1500	1500	1500	1500	1500
1600	1	1600	1600	1600	1600	1600
1700	1	1700	1700	1700	1700	1700
1800	1	1800	1800	1800	1800	1800
1900	1	1900	1900	1900	1900	1900
2000	1	2000	2000	2000	2000	2000
2100	1	2100	2100	2100	2100	2100
2200	1	2200	2200	2200	2200	2200
2300	1	2300	2300	2300	2300	2300
2400	1	2400	2400	2400	2400	2400
2500	1	2500	2500	2500	2500	2500
2600	1	2600	2600	2600	2600	2600
2700	1	2700	2700	2700	2700	2700
2800	1	2800	2800	2800	2800	2800
2900	1	2900	2900	2900	2900	2900
3000	1	3000	3000	3000	3000	3000
3100	1	3100	3100	3100	3100	3100
3200	1	3200	3200	3200	3200	3200
3300	1	3300	3300	3300	3300	3300
3400	1	3400	3400	3400	3400	3400
3500	1	3500	3500	3500	3500	3500
3600	1	3600	3600	3600	3600	3600
3700	1	3700	3700	3700	3700	3700
3800	1	3800	3800	3800	3800	3800
3900	1	3900	3900	3900	3900	3900
4000	1	4000	4000	4000	4000	4000
4100	1	4100	4100	4100	4100	4100
4200	1	4200	4200	4200	4200	4200
4300	1	4300	4300	4300	4300	4300
4400	1	4400	4400	4400	4400	4400
4500	1	4500	4500	4500	4500	4500
4600	1	4600	4600	4600	4600	4600
4700	1	4700	4700	4700	4700	4700
4800	1	4800	4800	4800	4800	4800
4900	1	4900	4900	4900	4900	4900
5000	1	5000	5000	5000	5000	5000
5100	1	5100	5100	5100	5100	5100
5200	1	5200	5200	5200	5200	5200
5300	1	5300	5300	5300	5300	5300
5400	1	5400	5400	5400	5400	5400
5500	1	5500	5500	5500	5500	5500
5600	1	5600	5600	5600	5600	5600
5700	1	5700	5700	5700	5700	5700
5800	1	5800	5800	5800	5800	5800
5900	1	5900	5900	5900	5900	5900
6000	1	6000	6000	6000	6000	6000
6100	1	6100	6100	6100	6100	6100
6200	1	6200	6200	6200	6200	6200
6300	1	6300	6300	6300	6300	6300
6400	1	6400	6400	6400	6400	6400
6500	1	6500	6500	6500	6500	6500
6600	1	6600	6600	6600	6600	6600
6700	1	6700	6700	6700	6700	6700
6800	1	6800	6800	6800	6800	6800
6900	1	6900	6900	6900	6900	6900
7000	1	7000	7000	7000	7000	7000
7100	1	7100	7100	7100	7100	7100
7200	1	7200	7200	7200	7200	7200
7300	1	7300	7300	7300	7300	7300
7400	1	7400	7400	7400	7400	7400
7500	1	7500	7500	7500	7500	7500
7600	1	7600	7600	7600	7600	7600
7700	1	7700	7700	7700	7700	7700
7800	1	7800	7800	7800	7800	7800
7900	1	7900	7900	7900	7900	7900
8000	1	8000	8000	8000	8000	8000
8100	1	8100	8100	8100	8100	8100
8200	1	8200	8200	8200	8200	8200
8300	1	8300	8300	8300	8300	8300
8400	1	8400	8400	8400	8400	8400
8500	1	8500	8500	8500	8500	8500
8600	1	8600	8600	8600	8600	8600
8700	1	8700	8700	8700	8700	8700
8800	1	8800	8800	8800	8800	8800
8900	1	8900	8900	8900	8900	8900
9000	1	9000	9000	9000	9000	9000
9100	1	9100	9100	9100	9100	9100
9200	1	9200	9200	9200	9200	9200
9300	1	9300	9300	9300	9300	9300
9400	1	9400	9400	9400	9400	9400
9500	1	9500	9500	9500	9500	9500
9600	1	9600	9600	9600	9600	9600
9700	1	9700	9700	9700	9700	9700
9800	1	9800	9800	9800	9800	9800
9900	1	9900	9900	9900	9900	9900
10000	1	10000	10000	10000	10000	10000

3.8

Thy

6.57-28

493001502

Elevation	Section	Lithology	Fossil	Grain Size	Color	Hardness	Conductivity %	Permeability %
0.70	1							
1.52	2							
2.24	3							
3.05	4							
3.81	5							
4.57	6							
5.33	7							
6.10	8							
6.86	9							
7.62	10							
8.38	11							
9.14	12							
9.91	13							
10.67	14							
11.43	15							
12.19	16							
12.95	17							
13.71	18							
14.48	19							
15.24	20							
16.00	21							
16.76	22							
17.52	23							
18.28	24							
19.04	25							
19.80	26							
20.56	27							
21.32	28							
22.08	29							
22.84	30							
23.60	31							
24.36	32							
25.12	33							
25.88	34							
26.64	35							
27.40	36							

28.1

Core	Section	Graphic Log	Caliper						
28-14	26		28						
28-14	27		57 1/2						
28-72	28		57 1/2						
30-45	29		57 1/2						
31-24	30		57 1/2						
32-00	31		57 1/2						
32-77	32		57 1/2						
33-53	33		57 1/2						
34-26									

Penetration #28 (cont).

498001502.

Pen 72 #29

Depth Feet	Core Section	Grain Log	Grain Size	Sorting	Grain Shape	Settlement		Fracture	
						Compaction	Consolidation	Compression	Consolidation
			3 2 1 0 mm	POOR MODERATE GOOD	ROUND FLAT ANGULAR	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80
0-7.5	Coring C1		540/1						
1-5.2	Coring C2	Fe	10467/4						
2-2.5	Coring C3	Fe	10467/4						
3-0.5	Coring C4		10467/4						
3-8	Coring C5		10467/4						
4-5.7	Coring C6		10467/4						
5-3.3	Coring C7		10467/4						
6-10	Coring C8		10467/4						
6-8.6	Coring C9		10467/4						
7-6.2	Coring C10		10467/4						
8-2.8	Coring C11		10467/4						
8-9.4	Coring C12		10467/4						
10-5.1	1		10467/4						
12-12	2		10467/4						
12-8.0	3		10467/4						
16-2.4	4		10467/4						
18-2.5	5		10467/4						
20-2	6		5074/1						
21-6.4	7								
23-16	8		541/1						
24-6.4	9		576/1						
26-7.1	10								

BRIDGE WATER

BRIDGE SANDS

18.0

26.2

GALS	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE # 2 2 1 0 F. T. M. C. V.	SORTING POOR MODER. WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS %	FRACTURE CONCENTRATION %
							20 40 60 80	10 20 30 40
26.78	12	1	D	542/1				
		2						
		3						
		4						
		5						
		6						
		7						
		8						
33.83	13	9	D	572/1				
		1						
		2						
		3						
		4						
36.27	14	5	D	542/1				
		1						
		2						
		3						
		4						
		5						
		6						

← GAMBIER L'STONE.

[illegible]

Pen No. #374

	Core	Section	Graphic Log		Grain Size # 3 # 2 # 1 # 0 F.C. microns	Socting Per Pore Water	Grain Shape Long S-R S-A Round	Sediment Composition %	Framework Composition %
	Cuttings	C1	Fe	10+27/6					
361									
4-57	Cuttings	C2	Fe	10+14/6					
5-33	Cuttings	C3	Fe	10+4/6					
6-10	Cuttings	C4	Fe	10+16/6					
6-56	Cuttings	C5	Fe	10+16/6					
7-62	Cuttings	C6	Fe	10+16/6					
8-22	Cuttings	C7	Fe	10+16/6					
9-14	Cuttings	C8	Fe	10+16/6					
9-75	1	1	Fe	5+16/6					
10-24	2	2	Fe	5+16/6					
10-82	3	3	Fe	5+16/6					
11-43	4	4	Fe	5+16/6					
11-73	5	5	Fe	10+16/6					
12-64	6	6	Fe	5+16/6					
12-81	7	7	Fe	5+16/6					
13-26	8	8	Fe	5+16/6					
	9								
16-31	Lost Interval		Fe	5+16/6					
16-76			Fe	10+16/6					
	10								
19-81			Fe	10+16/6					
21-34	11	1		10+16/6					
22-85	12	2		10+16/6					
24-33	13			10+16/6					
25-31	14			10+16/6					
	15								

DISCONTINUOUS

40°

1

5th. ♡

[illegible]

DATE	SECTION	GRAPHIC	NOTE							
27	1 2 3 4 5 6 7 8 9 10	GRAPHIC	NOTE							
28	X 1 2 3 4 5 6									
29	1 2 3 4 5 6 7 8									

Basin #35

Core	Section	Geologic Log	Grain Size	Color	Texture	Grain Sample	Grain Size	Grain Size	Grain Size
			3 2 1 0	Red	Medium	Well	Grain	Grain	Grain
0.50	1		10R4/6						
0.53	2		5YR5/4						
1.19	3		5YR5/4						
1.83	4		5YR5/4						
2.44	5		5YR5/4						
3.05	6		5YR5/4						
4.11	7		5YR5/4						
5.79	8		5YR5/4						
6.71	9		5YR5/4						
7.92	10	Fe	5YR5/4						
8.94	11	Fe	5YR5/4						
10.67	12	Fe	5YR5/4						
13.72	13	Fe	5YR5/4						
16.76	14	Fe	5YR5/4						
18.25	15	Fe	10R4/6						
19.66	16	Fe	5YR5/4						
22.71	17	Fe	10YR5/4						
24.5	18	Fe	10YR5/4						

Bedrock water

24.5

24.5

Pen #35

LOG	SECTION
19	1
20	2
21	3
	4
	5
	6

CONCRETE LOG

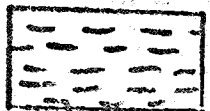
GRAPHIC LOG	COLOUR	GRAIN SIZE x 2 2 1 0 1/2 1/4 1/8 1/16	SORTING			GRAIN SIZE mm 1/2 1/4 1/8 1/16	SEDIMENTARY CONTENTS %	PERCENTAGE CONTENTS %
			POOR	MIDDLE	WELL			
	Ng	10763/3						
	Ng	10764/3						
	Ng	10765/3						
	Ng	10766/3						

INTERPRETED LOGS

027



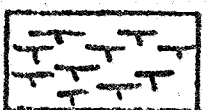
Quartzose sand/sandstone



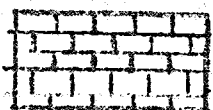
clay/daystone



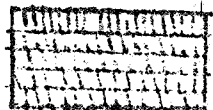
calcarenite



Calcilutite



Gambier Limestone



Calcrete



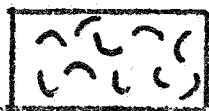
Soil



Chert



quartz and granules
and pebbles

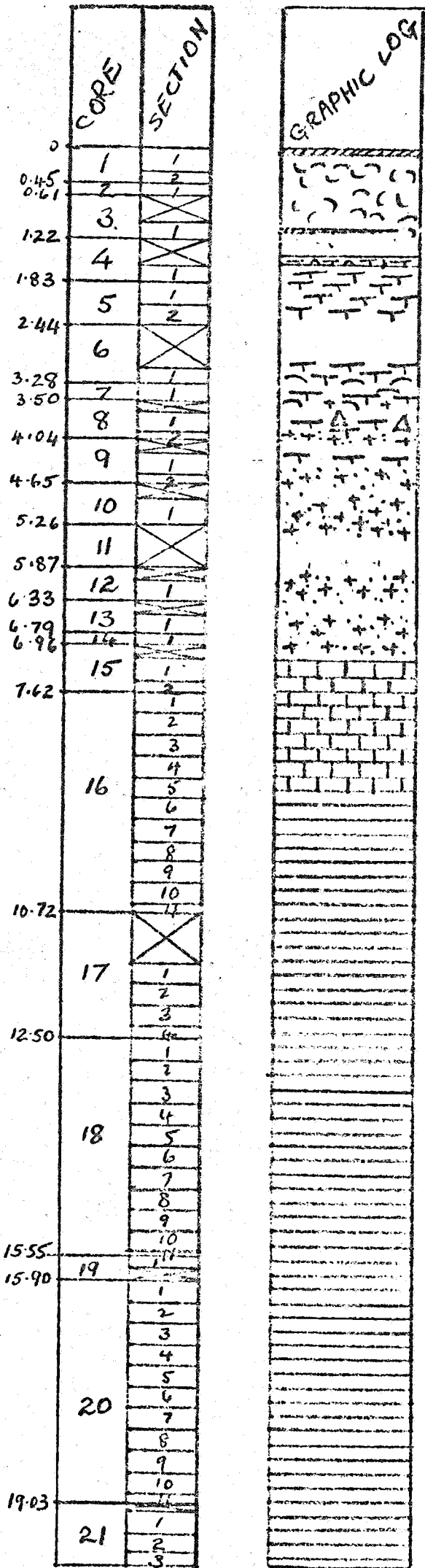


shell grit

CORE		SECTION	GRAPHIC LOG
0			
0.76		C1	
		C2	
1.52		C3	
2.28		C4	
3.05		C5	
3.81		C6	
4.57		C7	
5.33		C8	
6.10		C9	
6.86		C10	
7.62		C11	
8.38		C12	
9.04		X	
	1	1	
10.41		2	
		1	
		2	
	2	3	
		4	
		5	
12.39		6	
		7	
		2	
		3	
	3	4	
		5	
		6	
		7	
15.07		8	
		9	
		X	
	4	1	
		2	
		3	
16.89		4	
		X	
		1	
		2	
		3	
	5	4	
		5	
		6	
		7	
19.71		8	
20.08	6	1	
		X	
		1	
	7	2	
		3	
21.39		4	
	8	1	
21.84		1	
		2	
		3	
	9	4	
		5	
		6	
		7	
		8	
		9	
24.79		10	

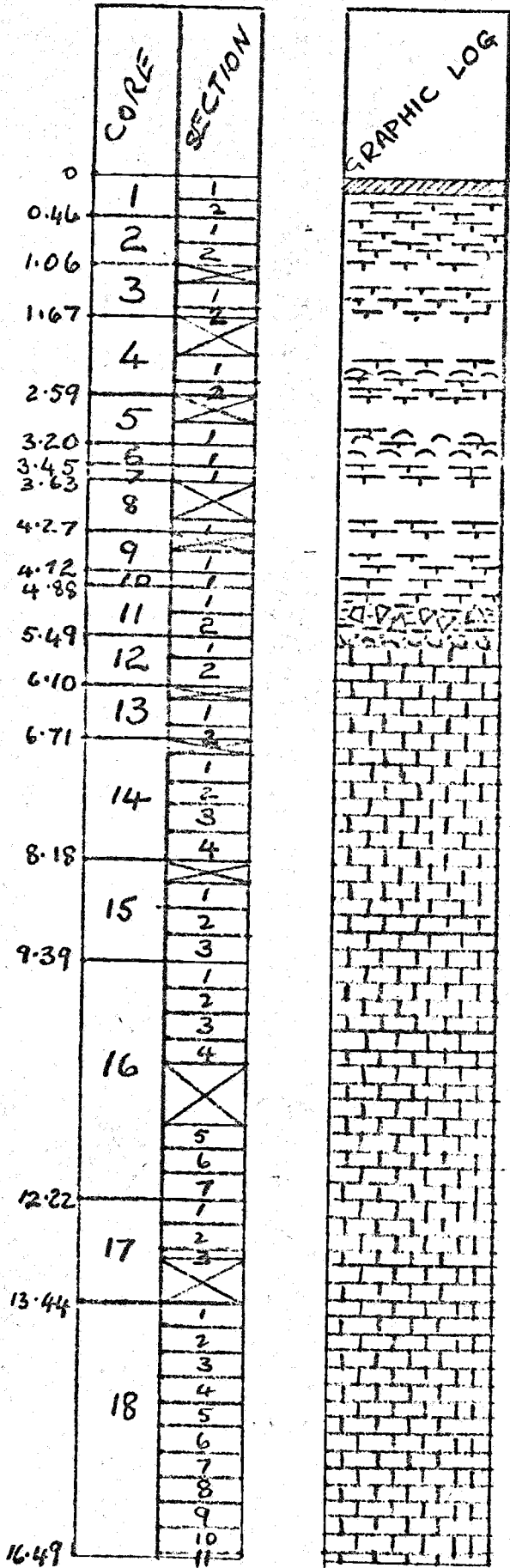
CORE	SECTION

GRAPHIC LOG



LACUSTRINE CLAYS

MARINE SAND
GAMBIER LIMESTONE



LACUSTRINE CLAY

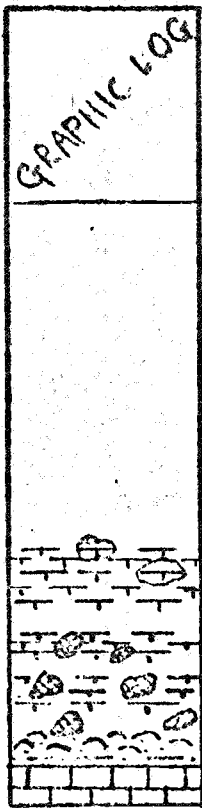
MARINE SHELL "GRIT"

LACUSTRINE CLAY

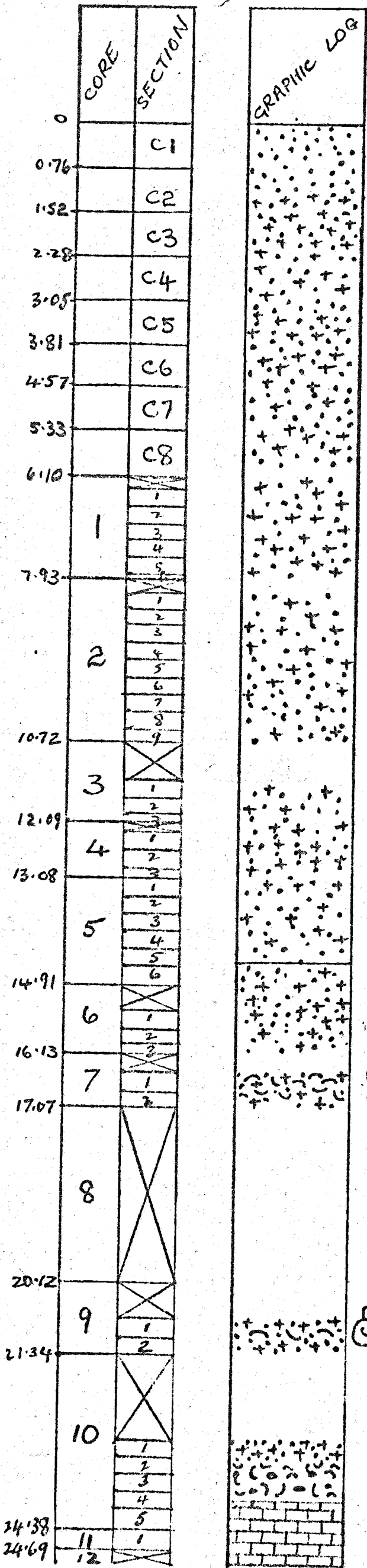
MARINE SAND

GAMBIER LIMESTONE

	CORE	SECTION
0		
3.35	1	1
3.79	2	1
4.40	3	1
4.62	4	1
5.24	5	1
5.46	6	1
6.16		2



MARINE SAND
GAMBIER LIMESTONE



10YR8/2
10YR7/4

10YR8/2
10YR8/6

BRIDGE WATER
MARINE SAND.

N8

N9

N8

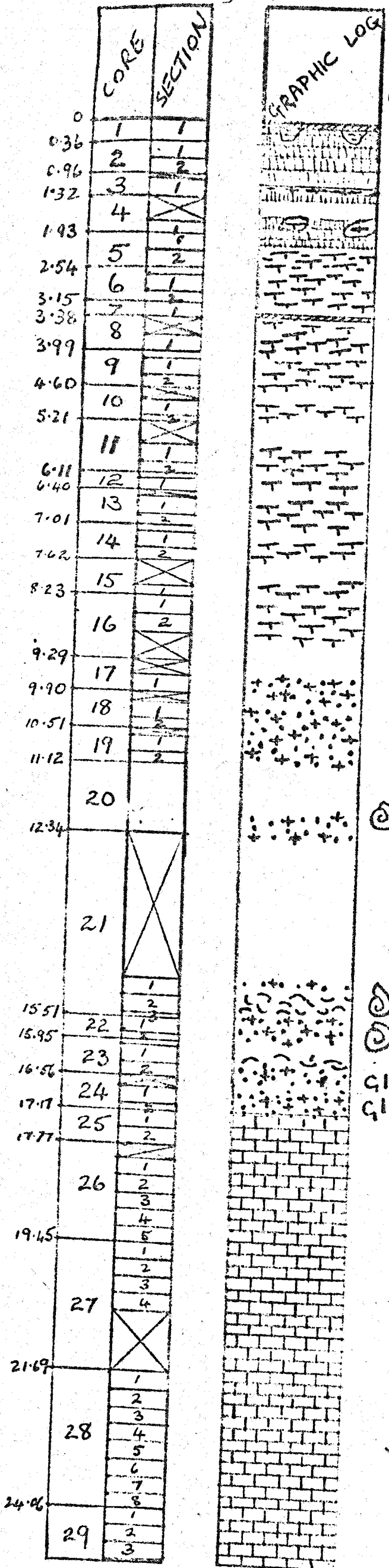
Q1

Q1

GAMBIER LIMESTONE

PENOLA No 8A (continued)

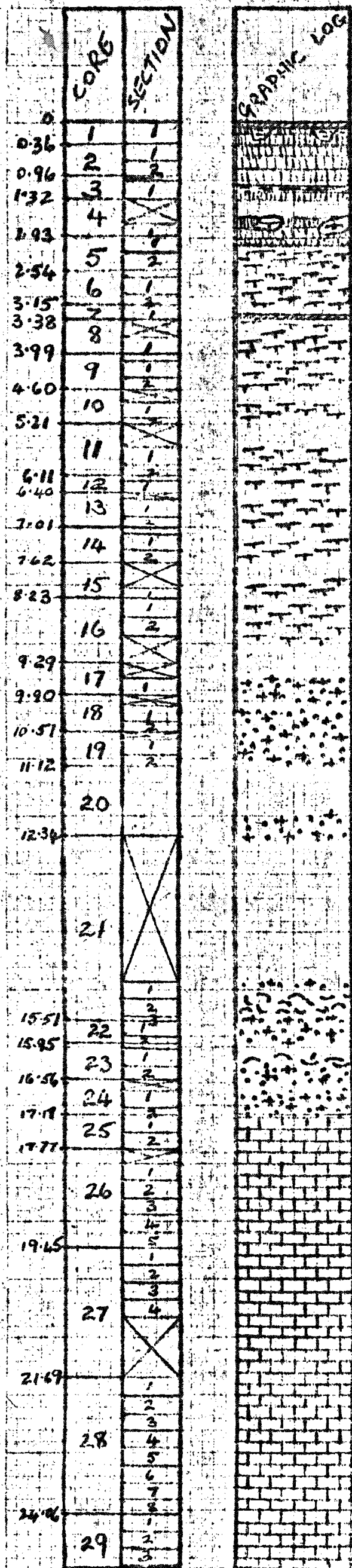
CORE		SECTION	GRAPHIC LOG
25 50	12	1	
		2	
27 48	13	3	
		4	
		5	
		6	
		7	
		8	
		9	
29 49	14	1	
		2	
		3	
		4	
		5	
		6	
32 46	15	7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
34 44	16	1	
		2	
		3	
		4	
		5	



N9

"LACUSTRINE" CLAY
"MARINE" SAND

GAMBIER LIMESTONE



This is a hard lac. ls. If hardened after exposure at ground surface could be called calcareo.

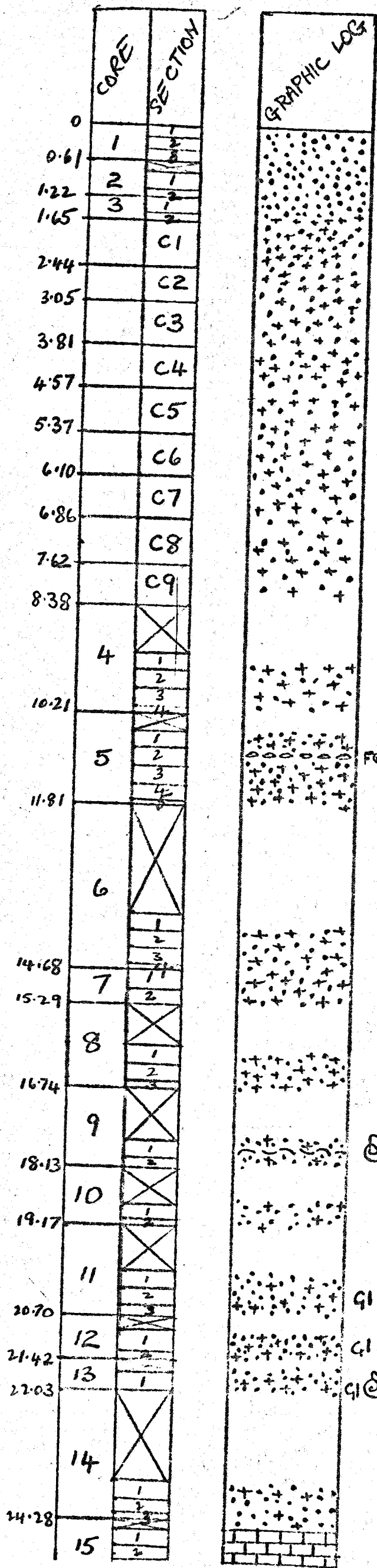
N9

"LACUSTRINE" CLAY
"MARINE" SAND

GAMBIER LIMESTONE

037

GRAPHIC LOG



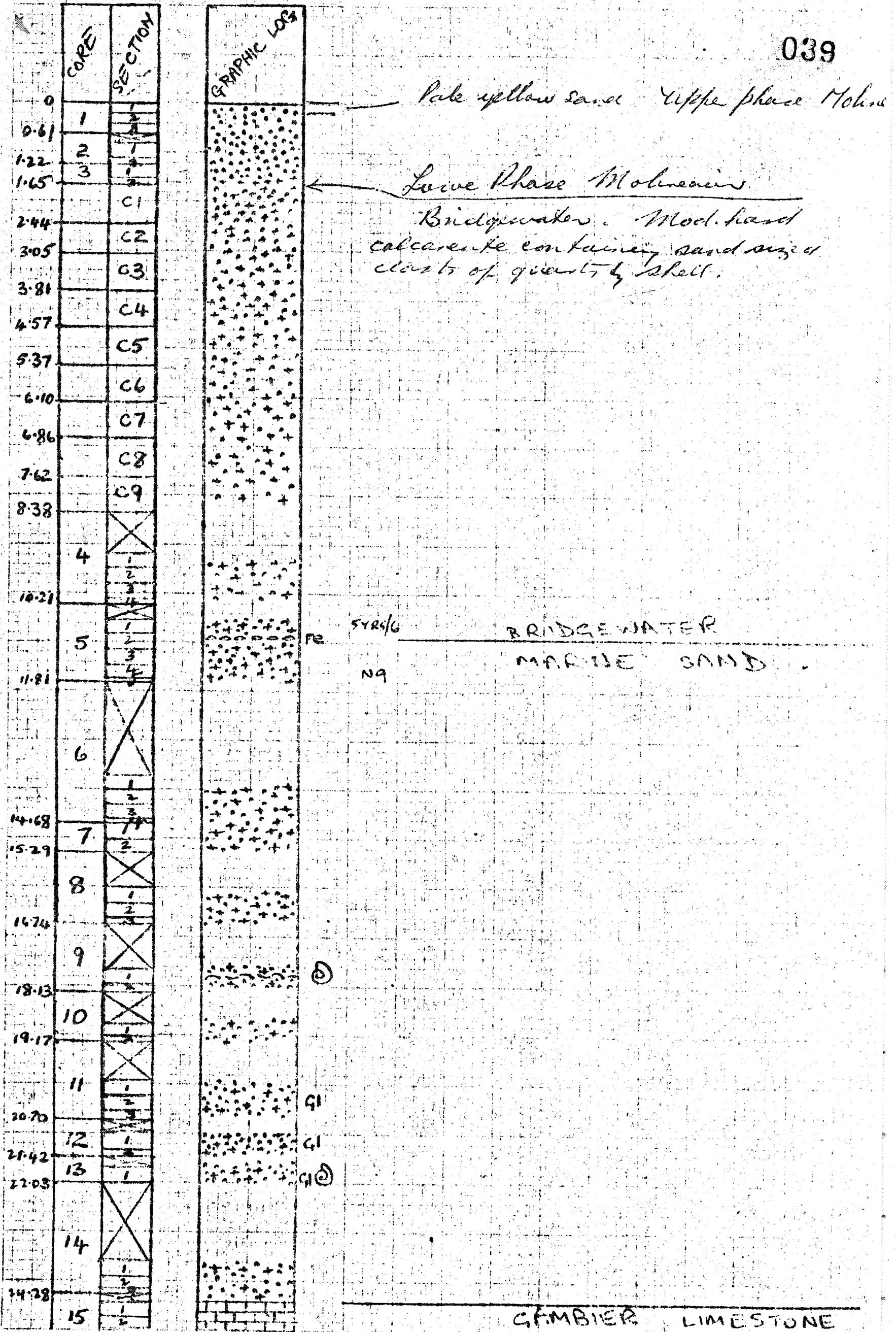
5YRS/6

BRIDGEWATER

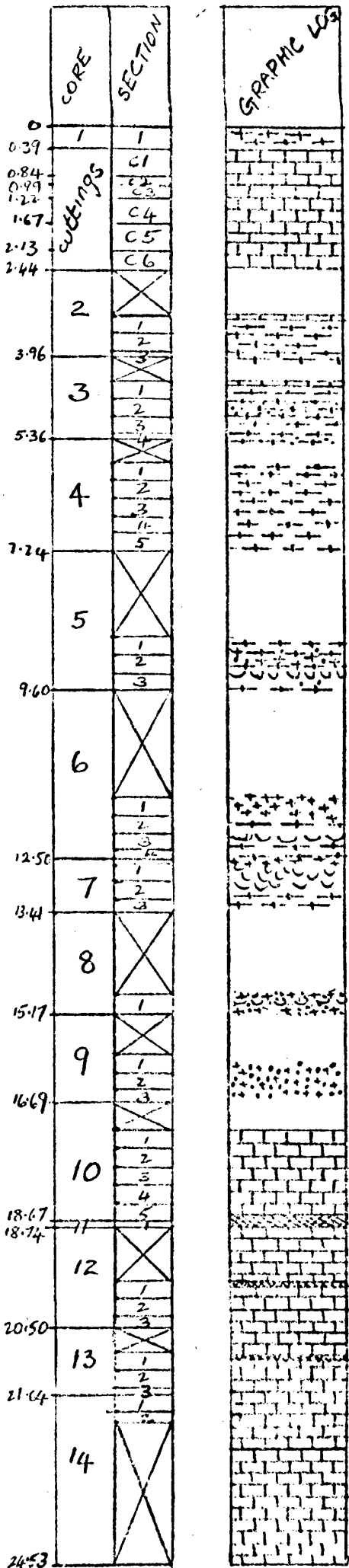
N9

"MARINE" SAND

GAMBIER LIMESTONE

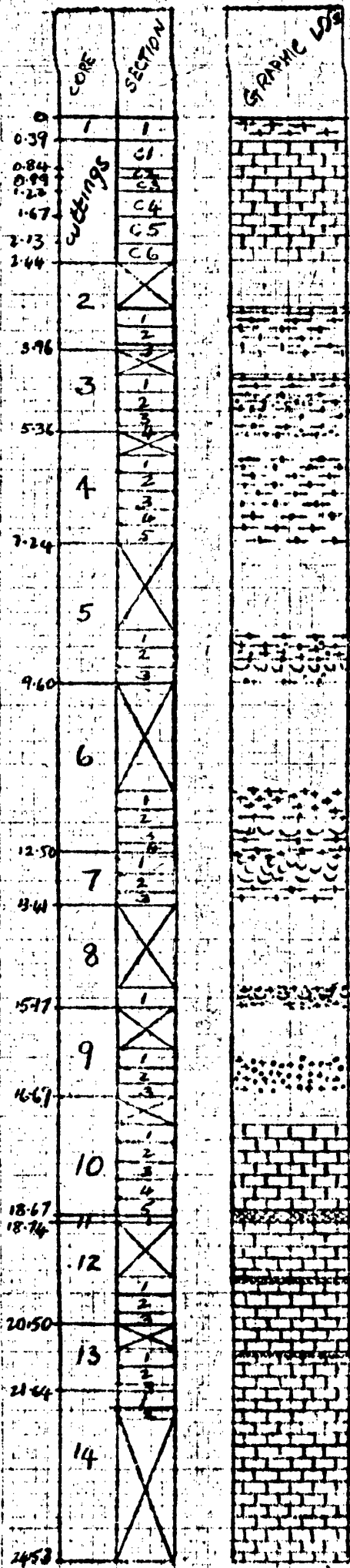


CORE		SECTION	GRAPHIC LOG
25.45	15	3	
		4	
		1	
		2	
	16	3	
		4	
		5	
		6	
		7	
		8	
		9	
		1	
		2	
28.50	17	3	
		4	
		5	
		6	
		7	
		1	
30.74	18	2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
33.83			



"LACUSTRINE" CLAY
"MARINE" SAND

GAMBIER LIMESTONE



Is this Pailthawey Fm. ls.? (Note also the gambier ls. symbol.)

← It brown calc. silt with abundant small gastropods lies ls. at base in 2(3) - 3.84 to 3.96

← This interval 3(1) (7.39 to 7.69) is logged as for 2(3) above, but is hard ls.

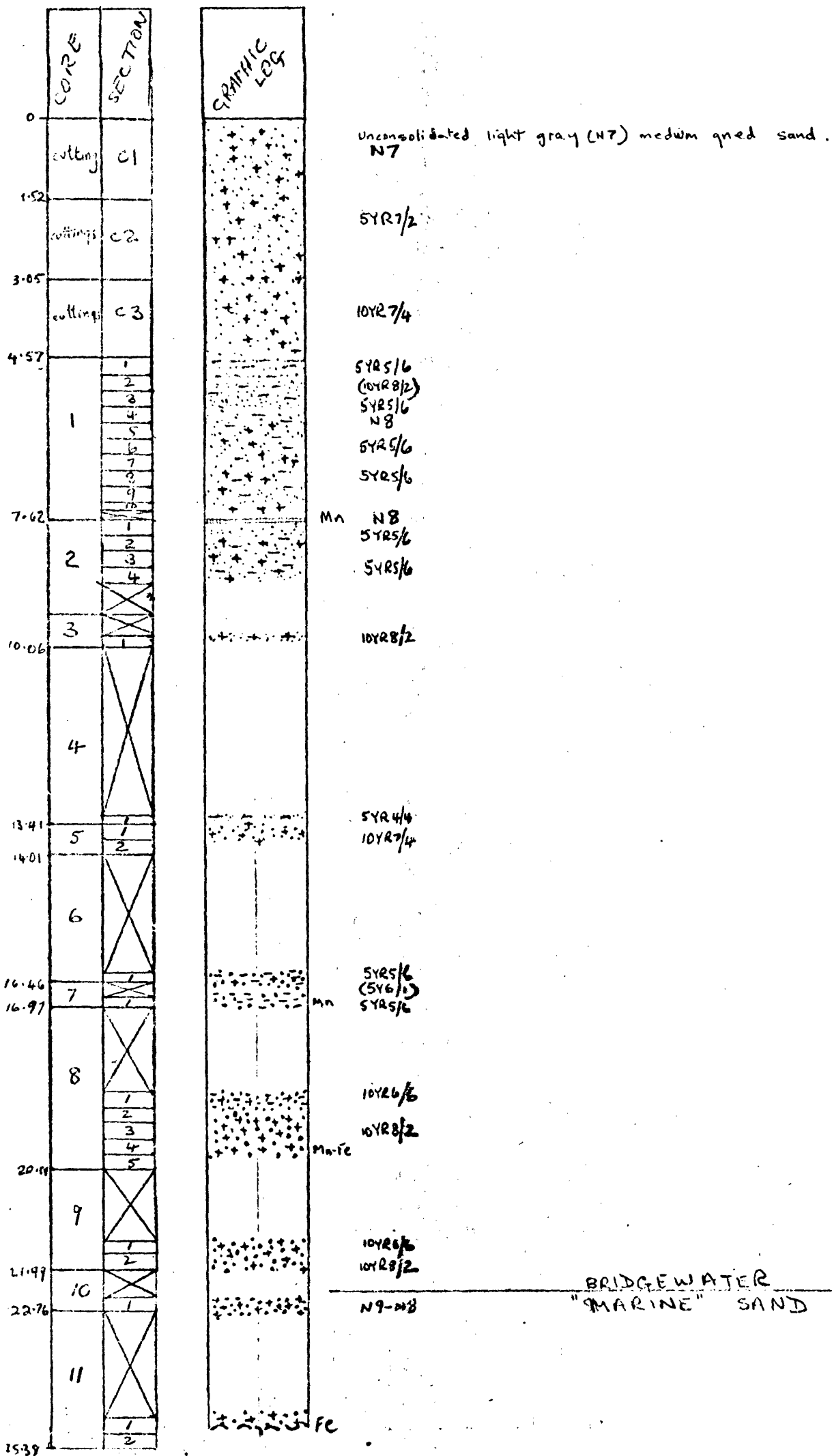
hard, shaggy ls.
mainly clay
with minor
ls. as in 3(1)

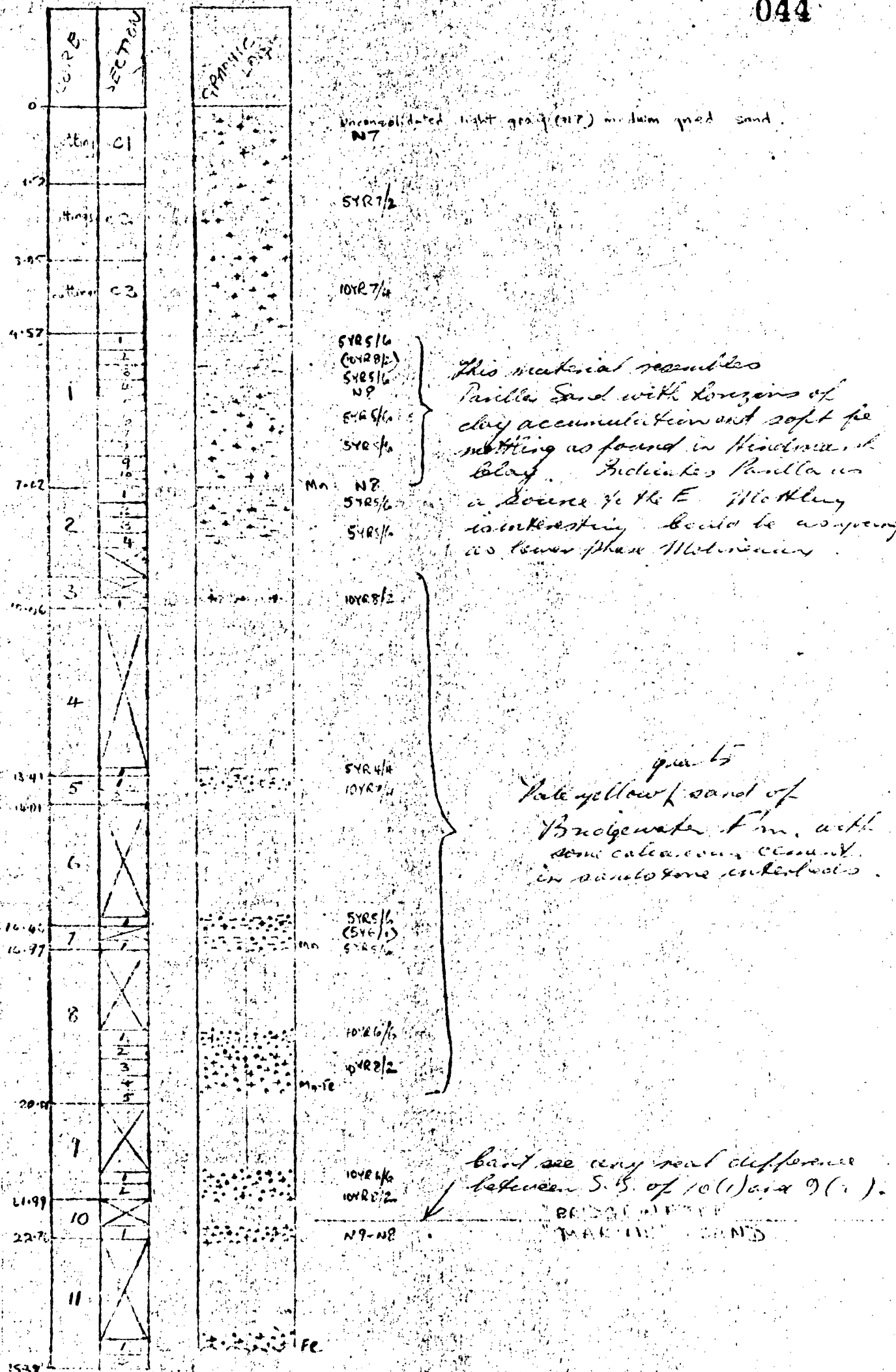
"LACUSTRINE" CLAY
"MARINE" SAND

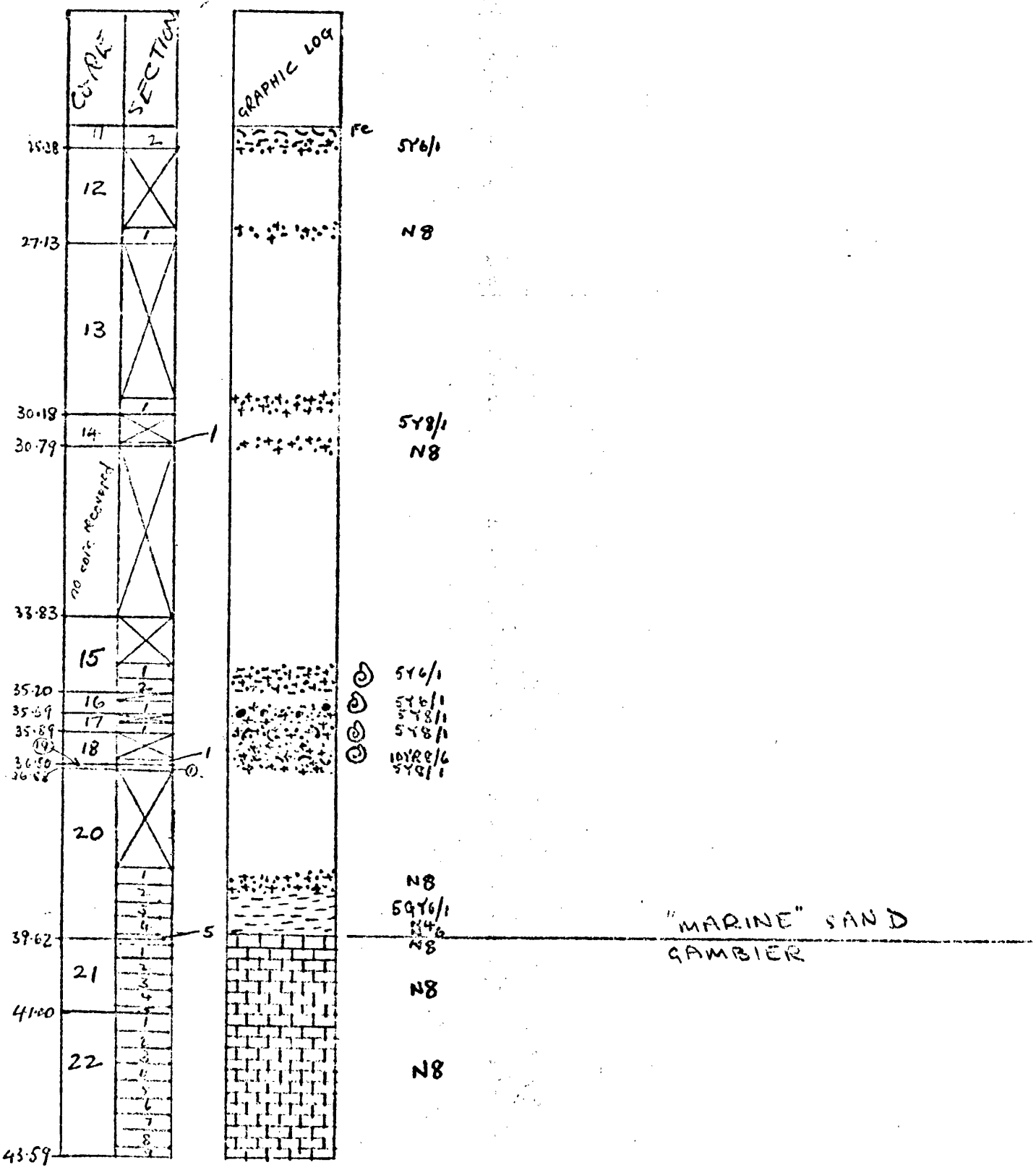
Indurated,
abundant
Lithology,
mud & grit
However, graphite log
does not show mud & grit,
which seems to be
important

GAMBIER LIMESTONE

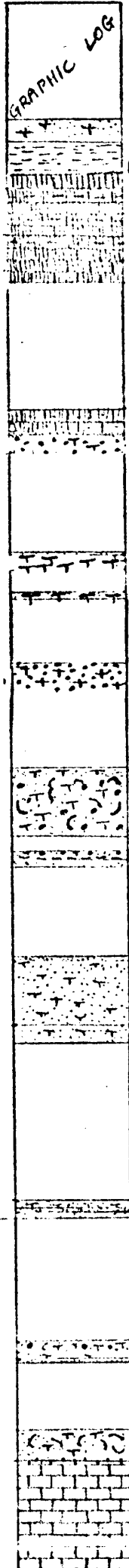
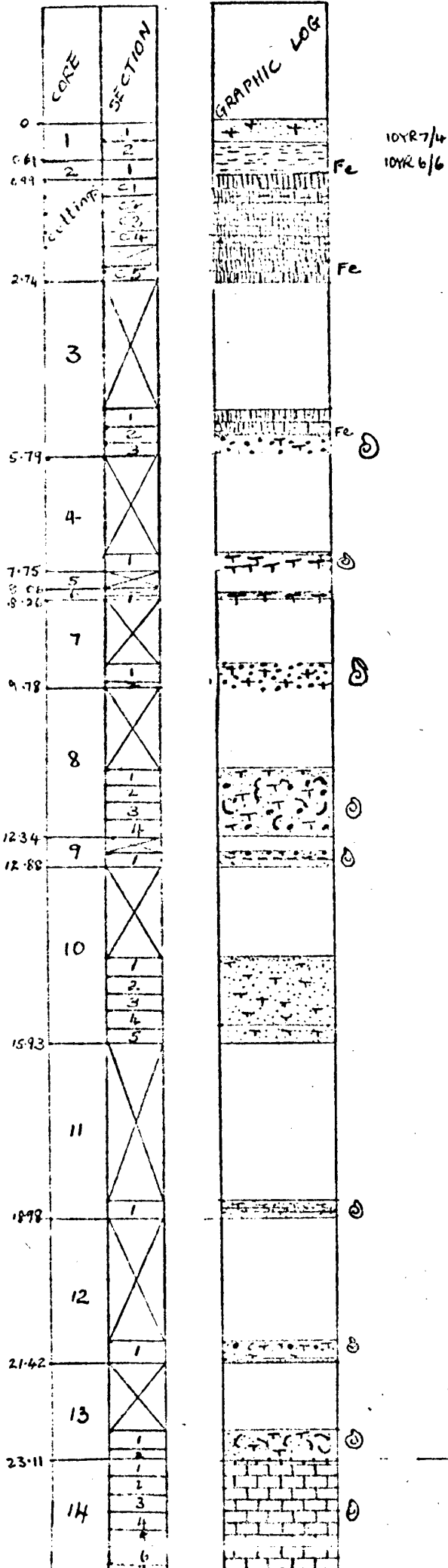
PENOLA No 16







PENOLA 19



10YR 7/4
10YR 6/6

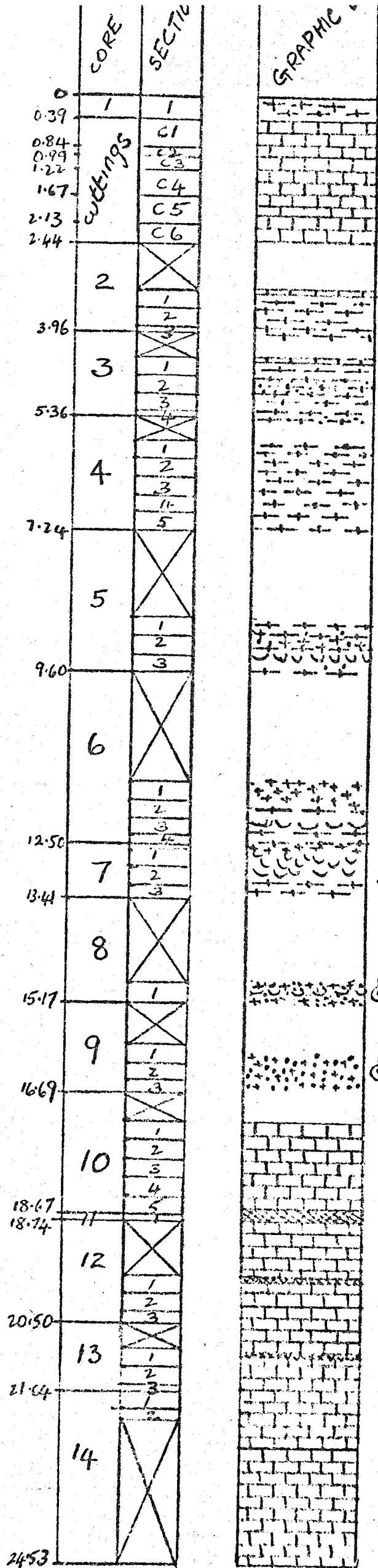
Fe

Fe

Fe

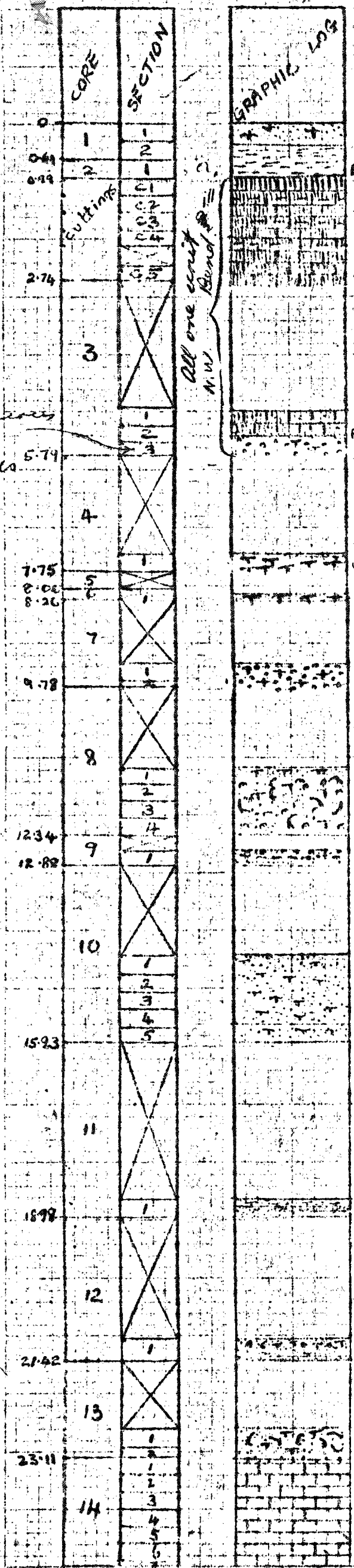
LACUSTRINE
MARINE SAND

GAMBIER LIMESTONE



"LACUSTRINE" CLAY
"MARINE" SAND

GAMBIER LIMESTONE



10YR 7/4

10YR 6/6

C1 appears (because of hardness?) should be Ripon but no pink soil in sequence.

Fe

— C5 looks like cuttings from Kaskaskia Surface, but a few reds suggest otherwise.

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

3(1)

looks like Ripon Surface material, but no angular clasts & originally a silty quartz sand. Only slightly calcareous. It is not as yellow as the top of the Ripon suggests Kaskaskia, particularly as it is so hard.

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

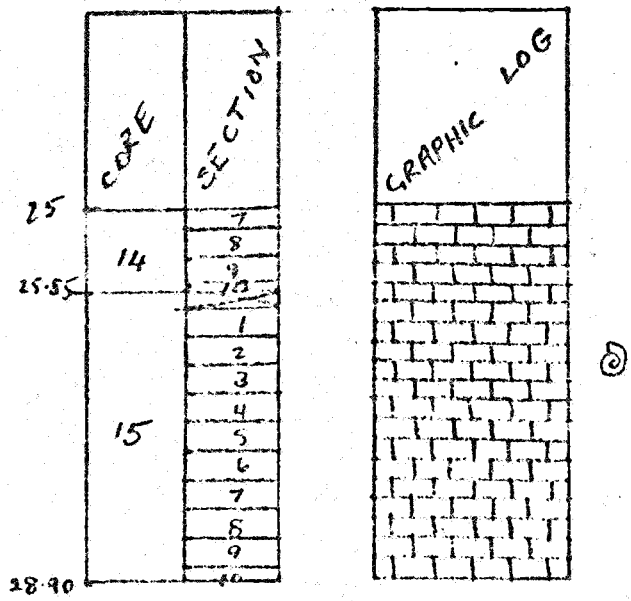
LACUSTRINE

MARINE

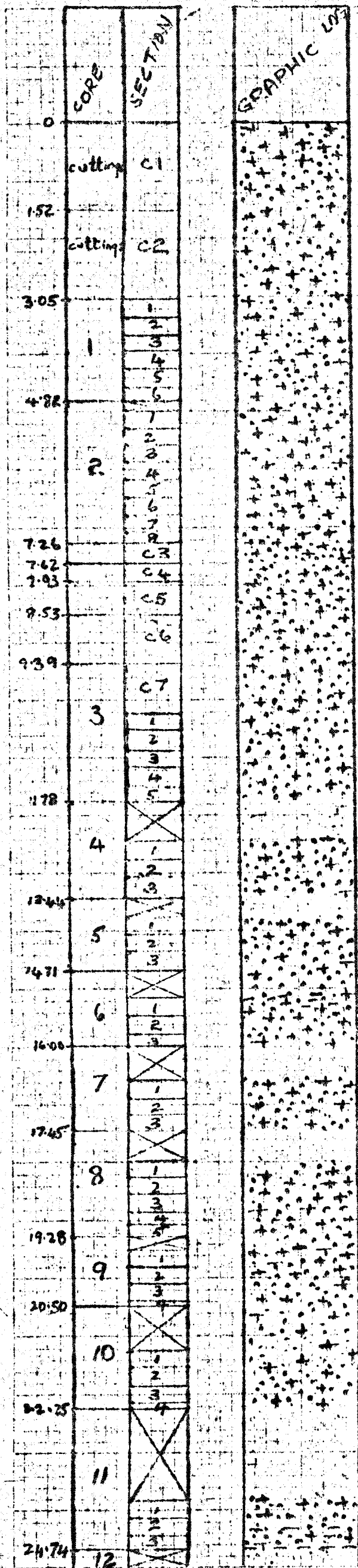
STONE

This looks like 3(3) above

GAMBIER LIMESTONE



7 BRIDGEWATER.
"MARINE" SAND.



Note that this core goes ~~into calcareous~~ into 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

10YR 7/4

10YR 7/4

10YR 7/4

10YR 7/4

10YR 6/6

5YR 5/6

10YR 7/4

Fe-Mn 10YR 7/4

Fe 10YR 6/6

10YR 6/6

10YR 7/4

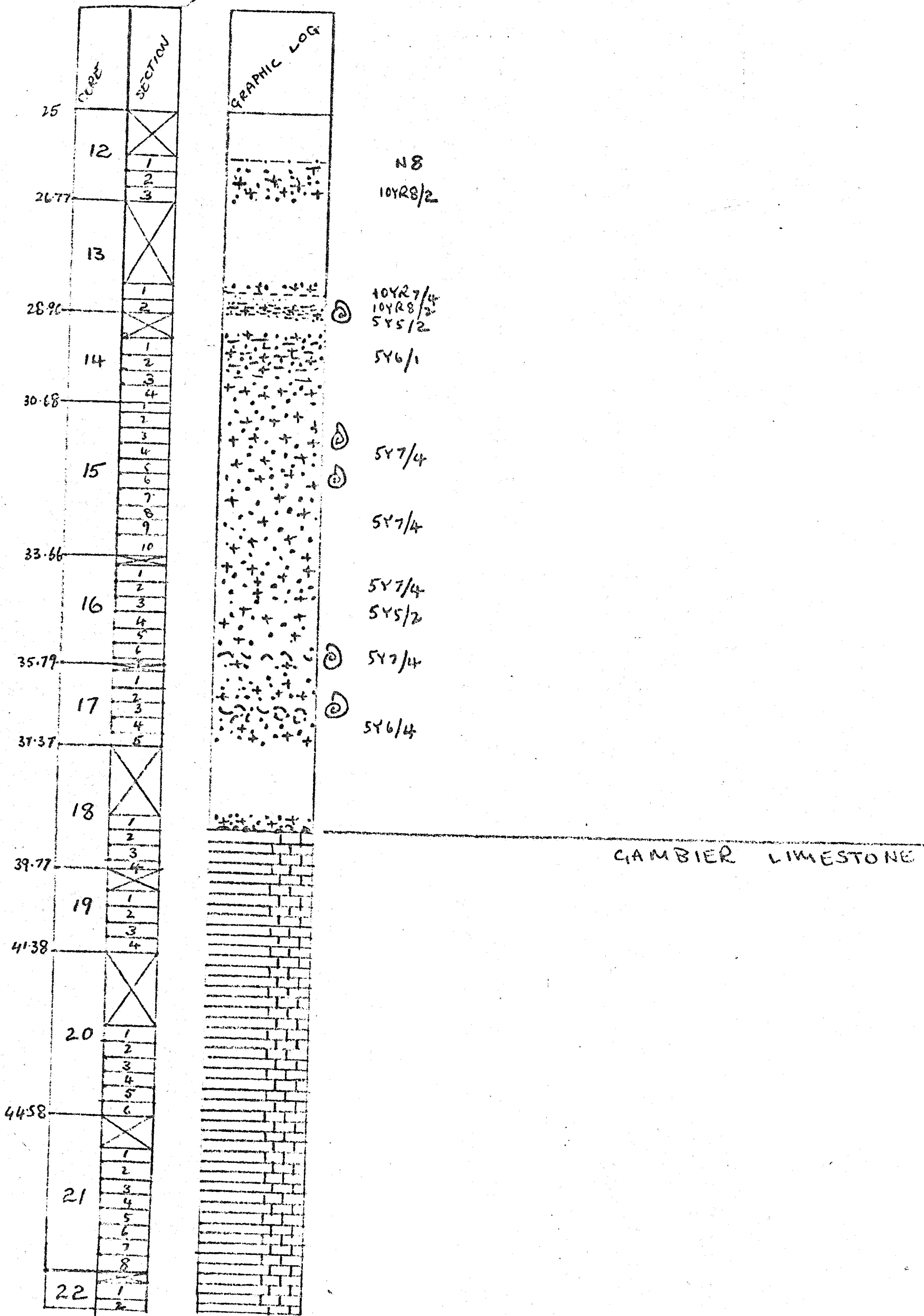
10YR 8/2

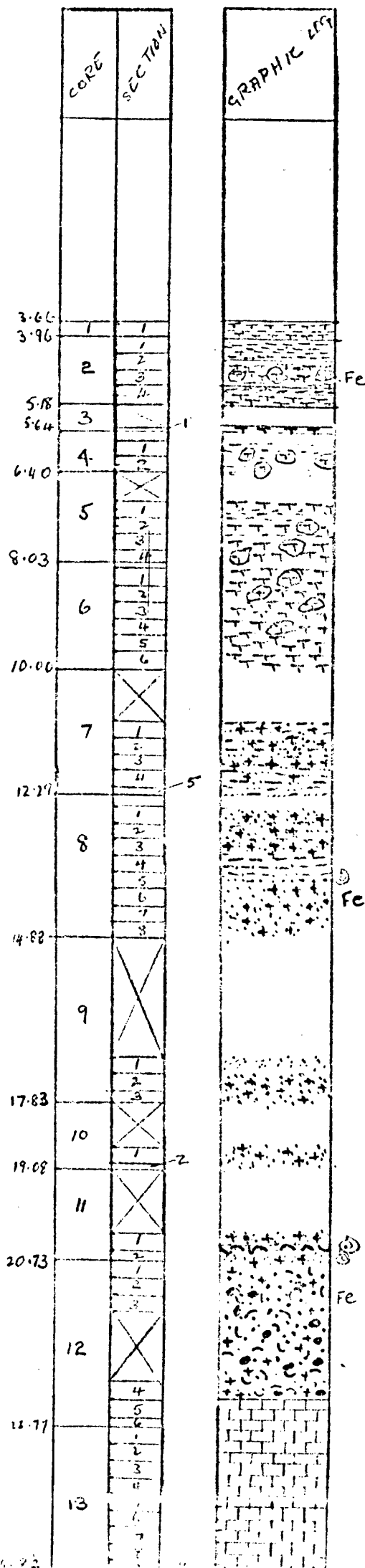
10YR 6/6

10YR 6/4

10YR 8/2

BRIDGE WATER
MARINE SAND.





CORE 1 v lt. gray (N8) calcilutite with a thin band of lt olive gray (SY6/1) non-calc clay at 18cm. Scattered fine grained sub-angular qtz gns

CORE 2 0-29 lt olive gray (SY6/1) sl calc clay. Scattered qtz gns

N8
(SY6/1)
10YR7/2
N8

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 fine grained sub-angular qtz gns.
100-122 v lt gray (N8) with minor dk yellowish brown (10YR6/6) staining - calcilutite.

CORE 3

N9
(SYR5/6)

N8
N9

N9

N9

(SYR5/6)

"LACUSTRINE" CLAY
"MARINE" SAND

N7
(SYR5/6)

SY6/1

SY6/1

Fe
SYR5/6

10YR7/4

SYR5/1
N8
SYR5/1

Fe

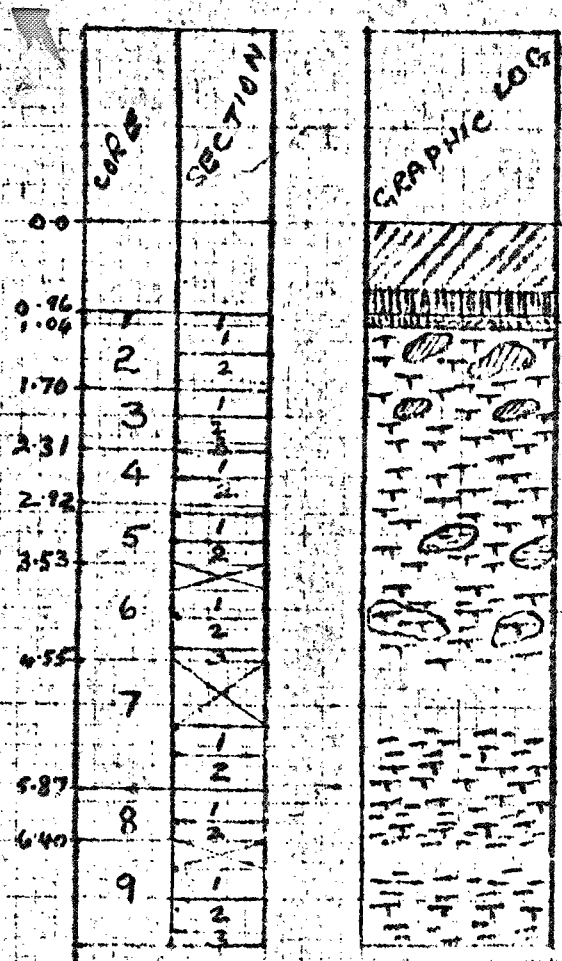
GAMBIER LIMESTONE

DEPTH	SECTION
0.0	
0.86	1
1.04	2
1.70	3
2.31	4
2.92	5
3.53	6
4.55	7
5.87	8
6.40	9



N1
SY8/1

"LACUSTRINE" CLAY



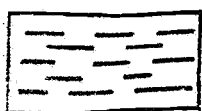
N1
SYS/1

Where is this calcareous?

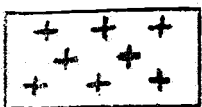
"LACUSTRINE" CLAY



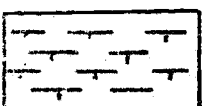
Quartzose sand/sandstone



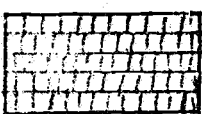
Clay/claystone



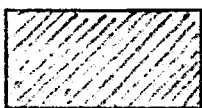
Calcarenite



Calcilutite



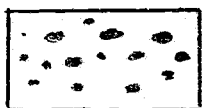
Calcrete



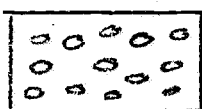
Soil



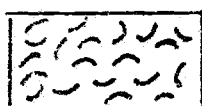
Chert



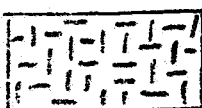
Quartz granules & pebbles



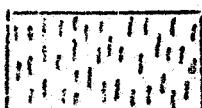
Calcrete pebbles



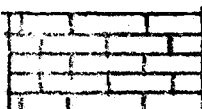
Shell grit



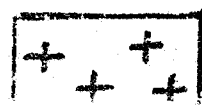
Lignitic clays



Lignite



Gumbier & 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

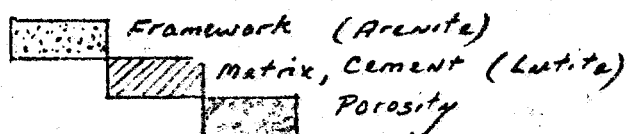
Mn Manganese staining

P Pyrite

Gl Glauconite

— Ferruginized surface

SEDIMENT COMPONENTS:

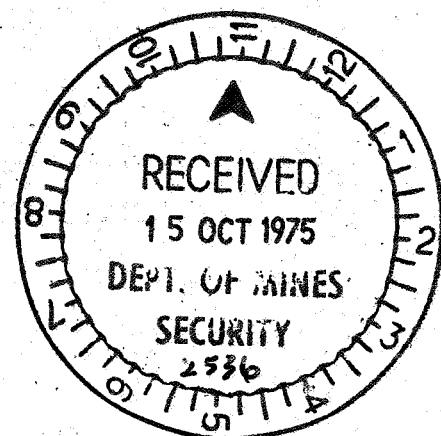


FRAMEWORK COMPOSITION



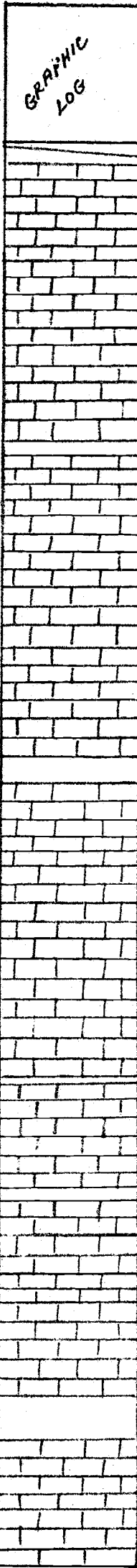
INDURATION:

ALT Alternating indurated & non-indurated banks.



CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE *	SORTING *	GRAIN SHAPE *	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDURATION
				3 2 1 0 φ f m c vl					
					POOR MODER WELL	ROUND S-R S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER WELL
0.91	1		Fe	10YR6/6					
1.52	2			10YR6/6					
				10YR4/6					
				5Y8/4					
				5Y7/2					
2.95	3		(Fe)	(5Y7/6)					
				10YR6/6					
				10YR4/6					
				5Y7/2					
				(10YR6/6)					
4.47	4		Fe	10YR6/6					
				5Y7/2					
				(10YR6/6)					
				5Y7/2					
				(10YR6/6)					
5.79	5		(Fe)	5Y7/2					
				N7 &					
				10YR6/6					
				N7					
				N7					
7.31	6		Fe	N7 &					
				10YR6/6					
				N7					
				N7					
				N7 &					
8.84	7		Fe	10YR6/6					
				10YR7/6					
				10YR8/6					
				10YR8/2					
				5Y8/4					
10.26	8		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
11.79	9		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
12.39	10		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
13.92	11		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
14.53	12		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
15.29	13		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
16.31	14		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
17.83	15		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
18.95	16		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
20.17	17		Fe	10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					
				10YR8/2					

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

		CORE	SECTION	GRAPHIC LOG			COLOR
0.91	1	1	1			Fe	10YR6/6
			2				10YR6/6
1.37	2	1	1				10YR6/6
			2				
2.90	3	3	3				
			4				
			5				
			1				
			2				
4.34	4	3	3			G	
			4				
			5				
			1				
5.87	5	3	3			G G	
			4				
			5				
			1				
			2				
7.24	6	3	3			G	
			4				
			5				
			1				
8.76	7	3	3			G	10YR6/6 (5YR5/6)
			4				
			5				
			1				
			2				
10.29	8	3	3			G G	10YR7/6
			4				
			5				
			1				
11.81	9	3	3				10YR8/4
			4				
			5				
			1				
			2				
13.33	10	3	3				10YR8/6
			4				
			5				
			1				
			2				
14.86	11	3	3				5Y8/4
			4				
			5				
			1				
			2				
16.38	12	3	3				
			4				
			5				
			1				
			2				
17.91	13	3	3				
			4				
			5				
			1				
			2				
20.34	14	3	3				10YR8/6
			4				
			5				
			1				
			2				

NARACORTE LIMESTONE (SHELLY & BRYOZONAL)

?

GARDNER LIMESTONE (BRYOZONAL)

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDEX																
				3 φ	2 φ	1 φ	0 φ	POOR	MIDDLE	WELL	ROUND	S-S	S-A	ANGULAR	20	40	60	80	20	40	60	80	POOR	MIDDLE	WELL		
0.91	1		5Y8/1																								
1.52	2		10YR8/2																								
	3		N9 5Y6/1 10YR8/2																								
3.05	4		5Y8/1																								
3.86	5		5Y8/1																								
4.77	6		5Y8/1 10YR7/2																								
5.38	7																										
5.84	8		5Y8/1																								
5.99	9		5Y8/1																								
6.60	10		5Y8/1																								
7.01	11		5Y8/1																								
7.31	12																										
7.92	13																										
8.53	14		10Y6/2																								
8.99	15		10YR8/2																								
9.60	16		10Y8/2 & 10YR6/6																								
10.21	17		5Y8/1																								
10.36	18		5Y7/1																								
11.28	19		5Y7/1																								
11.89	20		10YR7/4																								
	21																										
13.56	22		10YR7/4																								
	23																										
15.24	24		10YR6/6																								
	25																										
17.60	26		10YR6/6																								
	27																										
20.65	28		10YR6/6																								
	29																										
23.70	30		10YR7/4																								
24.31	31		N5																								
24.92	32																										

	CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE 3 2 1 0 y f m c vl	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS 0% 20 40 60 80	FRAMEWORK COMPOSITION 0% 20 40 60 80	INDURATION POOR MODER WELL
25.53	28	1	+	•	N5						
26.14	29	1	+	⊙	N5						
26.75	30	1	+	⊙	N5						
27.36	31	1	+	⊙	10YR 6/6 (10YR 7/4)						
27.96	32	1	+								
28.57	33	1	+	⊙	5Y 7/1						
29.18	34	1									
29.79	35	1	+	⊙	5Y 6/1						
30.10	36	1	+								
30.71	37	1	+	⊙	5Y 6/1						
31.32	38	1									
31.93	39	1	+	⊙	N 6.5						
32.38	40	1									
	41	1									
34.65	42	1	+	⊙	N5						
35.25		2	+		N1						

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 f f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR- TION
0.61	1	1	+	10YR6/6						
1.22	2	2	+	10YR6/6						
2.14	3	1	+	5YR5/6						
2.14	4	2	+	10YR6/6						
3.20	5	1	+	10YR7/6						
4.57	6	2	+	10YR7/4						
5.79	7	3	+	10YR7/4						
7.09	8	1	+	10YR6/6						
8.61	9	2	+	10YR6/6						
10.13	10	3	+	10YR6/6						
11.66	11	4	+	5YR5/6						
13.18	12	1	+	10YR5/6						
13.59	13	2	+	10YR6/6						
14.20	14	1	+	10YR6/6						
14.81	15	2	+	10YR6/6						
15.42	16	1	+	10YR6/6						
16.03	17	2	+	10YR6/6						
16.64	18	1	+	10YR7/6						
17.25	19	2	+	10YR7/4						
17.85	20	1	+	10YR7/6						
18.47	21	2	+	10YR7/6						
19.07	22	1	+	10YR6/6						
19.68	23	2	+	10YR6/6						
20.29	24	1	+	10YR6/6						
20.90	25	2	+	10YR6/6						
21.51	26	1	+	10YR6/6						
22.12	27	2	+	10YR6/6						
22.73	28	1	+	10YR6/6						
23.34	29	2	+	10YR7/4						
24.26	30	1	+	10YR7/4						
24.86			+	10YR8/2						

NARACOORTE #39A(CONT.)

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE Ø 3 2 1 0 f f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-A S-A ANGULAR	SEDIMENT COMPONENTS 20 40 60 80	FRAMEWORK COMPOSITION 20 40 60 80	INDURATION POOR MODER WELL
25.48	31	+	10YR 6/6						
	32	+	10YR 7/4						
26.09	33	+	10YR 6/6						
26.69	34	+	10YR 6/6						
27.30	35	+	10YR 6/6						
27.91	36	+	10YR 6/6						
28.52	37	+	10YR 6/6						
29.26	38	+	10YR 6/6						
29.87	39	+	10YR 6/6						
30.48	40	+	10YR 6/6						
31.09	41	+	5Y 6/1						
31.70	42	+	5Y 6/1						
32.31	43	+	5Y 5/2						
32.92	44	+	N 6						
33.53	45	+	N 6						
34.14	46	+	N 6.5						
34.75	47	+	N 6.5						
35.36	48	+	N 6.5						
35.97	49	+	N 5						
36.58	50	+	N 5						
37.19	51	+	N 6						
37.79	52	+	N 6						
38.45	53	+	N 3						
39.01	54	+	5Y 2/1						
39.62	55	+	5Y 4/1						
40.23	56	+	5Y 2/1						
40.79	57	+	5Y 2/1						
41.25	58	+	5Y 2/1						
41.55	59	+	5Y 2/1						
42.16	60	+	5Y 2/1						
42.77	61	+	5Y 2/1						
43.38		+							

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE *	SORTING *	GRAIN SHAPE *	SEDIMENT COMPONENTS %	FRAMEWORK (ARENITE) COMPOSITION %	INDUR-ATION
					φ 3 2 1 0 f m c vc					
						POOR MODER. WELL	ROUND S-A S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER. WELL
0.30										
0.91	1	1		5Y7/2						
1.37	2	1		5Y7/6						
1.98	3	1		5Y7/2						
2.59	4	2		5Y7/2						
3.03	5	1		5Y8/1						
3.66	6	2		8 N9						
4.27	7	2		5Y7/2						
4.88	8	1		5Y7/2						
5.49	9	1		5Y7/2						
6.10	10	2		5Y7/2						
6.71	11	1		5Y7/2						
8.00	12	1		5Y7/2						
8.61	13	1		5Y7/2						
9.22	14	1		5Y7/2						
9.68	15	1		5Y7/2						
10.29	16	2		5Y7/2						
10.97	17	2		5Y7/2						
11.58	18	2		5Y7/2						
12.19	19	1		5Y7/2						
12.80	20	2		5Y7/2						
13.41	21	1		5Y7/2						
14.02	22	1		5Y7/2						
14.63	23	1		5Y7/2						
15.24	24	1		5Y7/2						
15.85	25	1		5Y7/2						
16.46	26	1		5Y7/2						
17.07	27	1		5Y7/2						
17.68	28	1		5Y7/2						
18.29	29	1		5Y7/2						
18.67	30	1		5Y7/2						
19.28	31	1		5Y7/2						
19.89	32	1		5Y7/2						
20.42	33	1		5Y7/2						
20.65	34	1		5Y7/2						
21.26	35	1		5Y7/2						
21.87	36	1		5Y7/2						
22.48	37	1		5Y7/2						
23.24	38	2		5Y7/2						
24.15	39	1		5Y7/2						
25.07	40	1		5Y7/2						

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

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE φ _{f m c vc}	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS % 20 40 60 80	FRACTIONAL COMPOSITION % 20 40 60 80	INDEXES - FIELD POOR MODER WELL
		C1		N9						
1-52		C2		5YR6/4						
3-05		C3		5YR6/4						
4-57		C4		10YR7/4						
6-01		C5		10YR7/4						
7-62		C6		10YR7/4						
9-14		C7		10YR7/4						
10-67		C8		10YR7/4						
12-19	CUTTINGS	C9		10YR7/4						
13-72		C10		10YR6/6						
15-24		C11		(G)						
16-76		C12		10YR6/6						
18-29		C13		10YR7/4						
19-31		C14		(G)						
21-34		C15		10YR7/4						
22-86		C16								
24-38		C17		10YR7/4						

[illegible]

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION	INDURATION
				3 2 1 0 4 3 2 1 0 F M C VL					
					POOR MODER. WELL	ROUND S-R S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER. WELL
0.30			N9						
0.91	1	+	10YR 8/6						
1.52	2	+							
2.13	3	+	10YR 7/6						
2.74	4	+	10YR 7/4						
3.35	5	+	5YR 7/6						
4.70	6	+	10YR 7/6						
	7	+	10YR 6/6						
7.75	8	+	10YR 7/4						
10.79	9	+	5YR 8/4						
12.32	10	+	5YR 6/4						
13.11	11	+	10YR 8/2						
14.63	12	+	5YR 5/6						
16.15	13	+	10YR 6/6						
17.68	14	+	5YR 5/6						
19.20	15	+	10YR 6/6						
20.73	16	+	10YR 6/6						
22.10	17	+	10YR 6/6						
23.62	18	+	10YR 6/6						

[illegible]

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 v f m c vl	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	FILLING % SAND GRAVEL CLAY
							20 40 60 80	20 40 60 80	
0.30	1		N8						
0.91	2		5Y8/1						
1.52	3		N9						
2.13	4		Fe-Mn? & 5Y8/1 (5Y6/1)						
	5		N9						
3.66	6		N9						
	7		N9						
5.18	8		N9						
5.79	9		10Y6/2						
6.71	10		Fe-Mn? N9						
7.92	11		5Y8/1						
9.02	12		5Y8/1						
10.66	13		N8						
11.58	14		N9						
12.19	15		(5Y8/1) (10YR6/6)						
13.11	16		5Y7/2						
14.55	17		10Y6/2 & 10YR6/6						
	18		5Y7/2 (10YR6/6)						
16.08	19		10YR6/6 & 5Y7/2						
17.60	20		Fe 10R4/6 (10Y6/2) 5Y7/6						
19.13	21		Fe 10R4/6 & 10Y6/2						
19.74	22		5Y8/4						
20.33	23		5Y8/4						
20.88	24		5Y8/4						
21.49	25		N9						
22.71	26		N9						
23.93	27		(10YR6/6)						
	28		N9						
	29								
	30								
	31								
	32								
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	97								
	98								
	99								
	100								

NARACOORTE 43A(CONT)

CORE	SECTION
25-30	1
25	1
26-52	2
26	1
	2
	3
28-04	4

GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 φ 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
	5Y8/4						
	N9 5Y8/4						

[illegible]

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDURATION
					3 2 1 0 ϕ f m c vc	POOR MODER WELL	ROUND S-R S-A ANGULAR	% 20 40 60 80	% 20 40 60 80	POOR MODER WELL		
26-52	22	1		—	10YR7/4							
		2										
		3										
		4										
	23	1		—	10YR6/6							
		2										
		3										
		4										
28-04		5		FL								
29-11	24	1		—	10YR8/6							
		2										
		3										
30-33	25	1		—	10YR7/4							
		2										
		3										
		4										
31-24	26	1		⊙ ⊕	5YR7/4 & N9							
		2										
		3										
32-36	27	1		—	N9							
		2										
		3										
33-12	28	1		—	10YR8/6							
		2										
		3										
34-67	29	1		⊙ ⊕ FL	10YR8/6 & 5Y8/4							
		2										
		3										
		4										
		5										
36-17	30	1		—	N9							
		2										
		3										
		4										
		5										
38-30	31	1		—	5Y8/4							
		2										
		3										
		4										
		5										

[illegible]

CORE	SECTION
21	3
	4
	5
22	1
	2
	3
	4
	5

25.91

27.43

GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDURATION
		3 φ y f m c vc	POOR MODER WELL	ROUND S-R S-A ANGULAR	% 20 40 60 80	% 20 40 60 80	POOR MODER WELL
	N9 R 5Y8/4						
	N9						

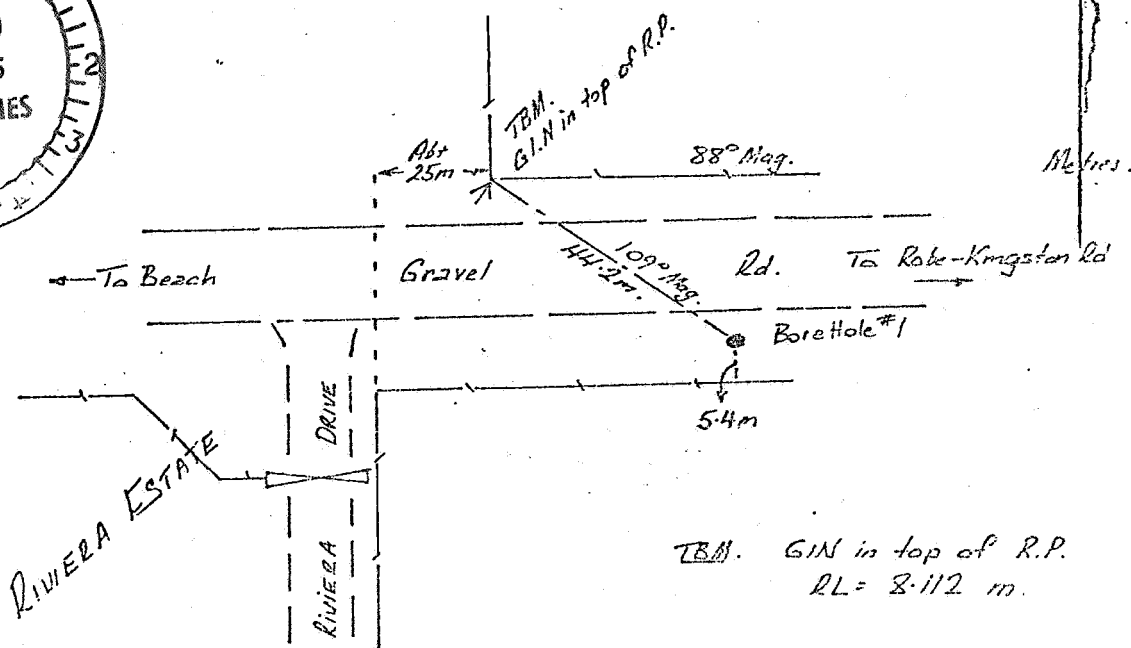
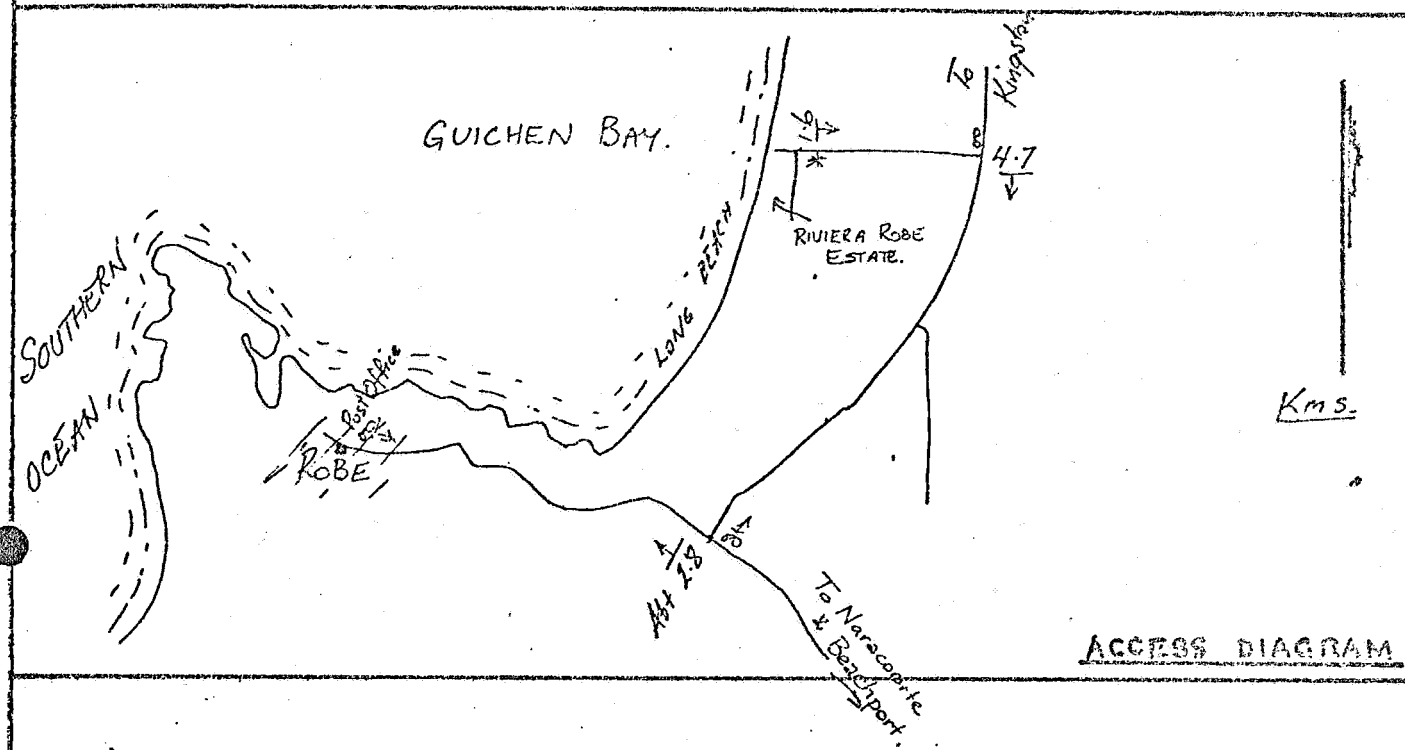
DEPARTMENT OF SERVICES AND PROPERTY

NO
NO LOG 073

PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore Hole #1



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	P.L.
Bore Hole #1			393160	5889420	6.35

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 2346 RL... 5.972

FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P/3/47 FOLIO 16 SURVEYED BY: [Signature]

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

DEPARTMENT OF SERVICES AND PROPERTY

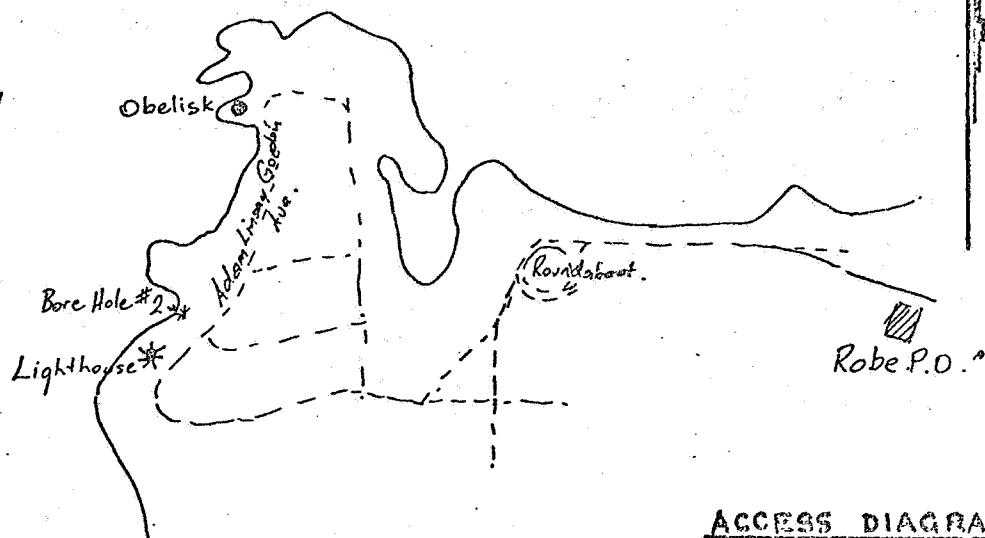
No 074
Log ✓

PROJECT ROBE - NARACOORTE COASTAL SURVEY

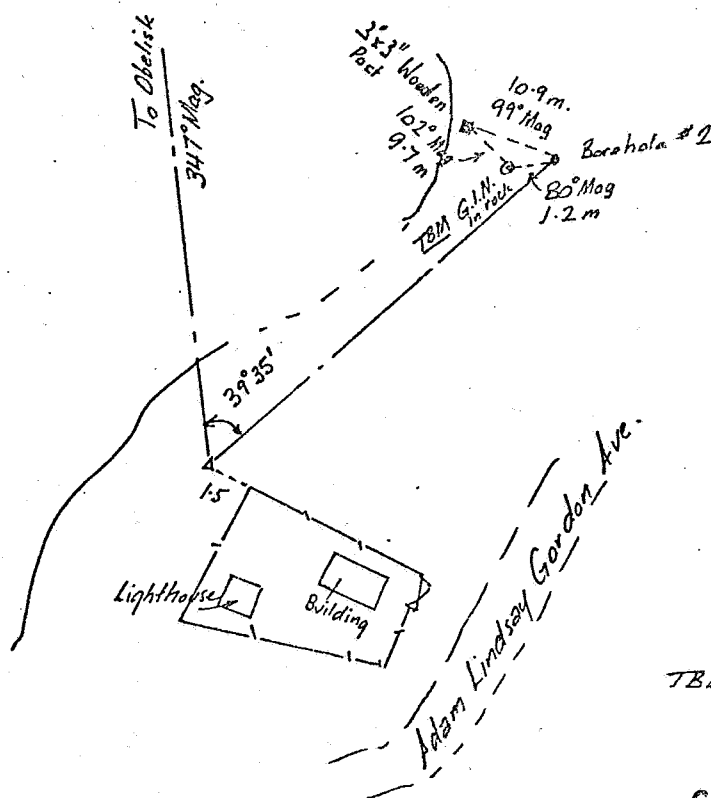
STN.

Bore Hole # 2

SOUTHERN
OCEAN



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. G.I.N. in Rock					5.140

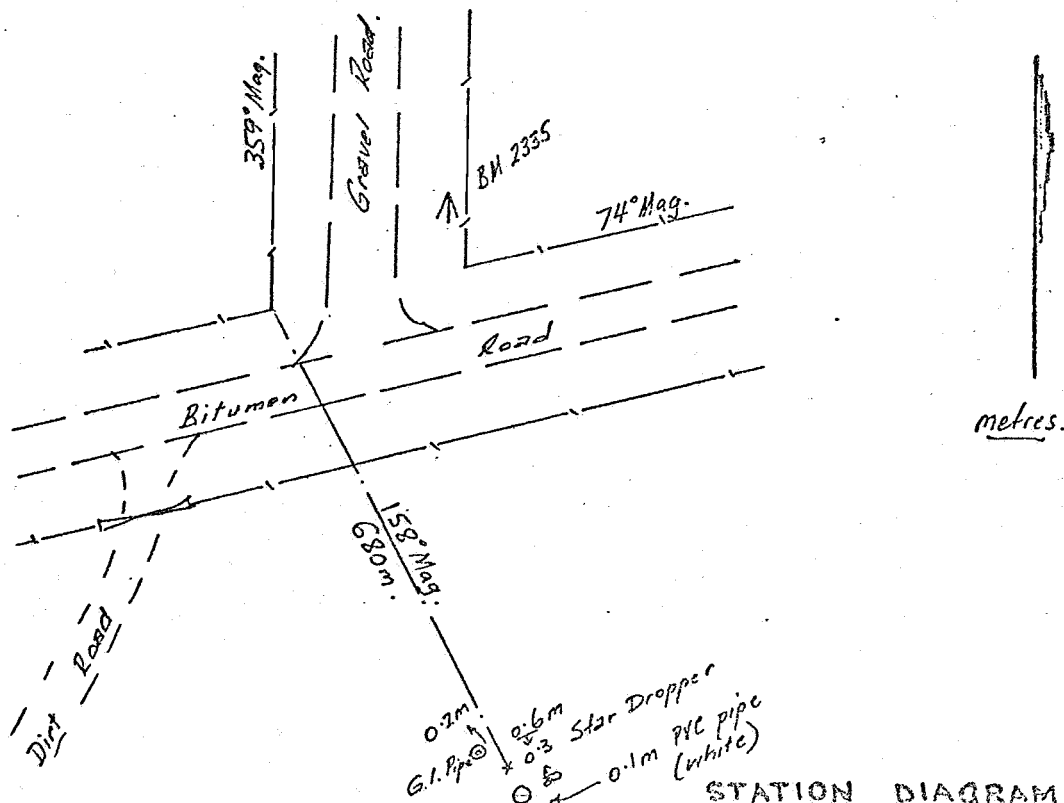
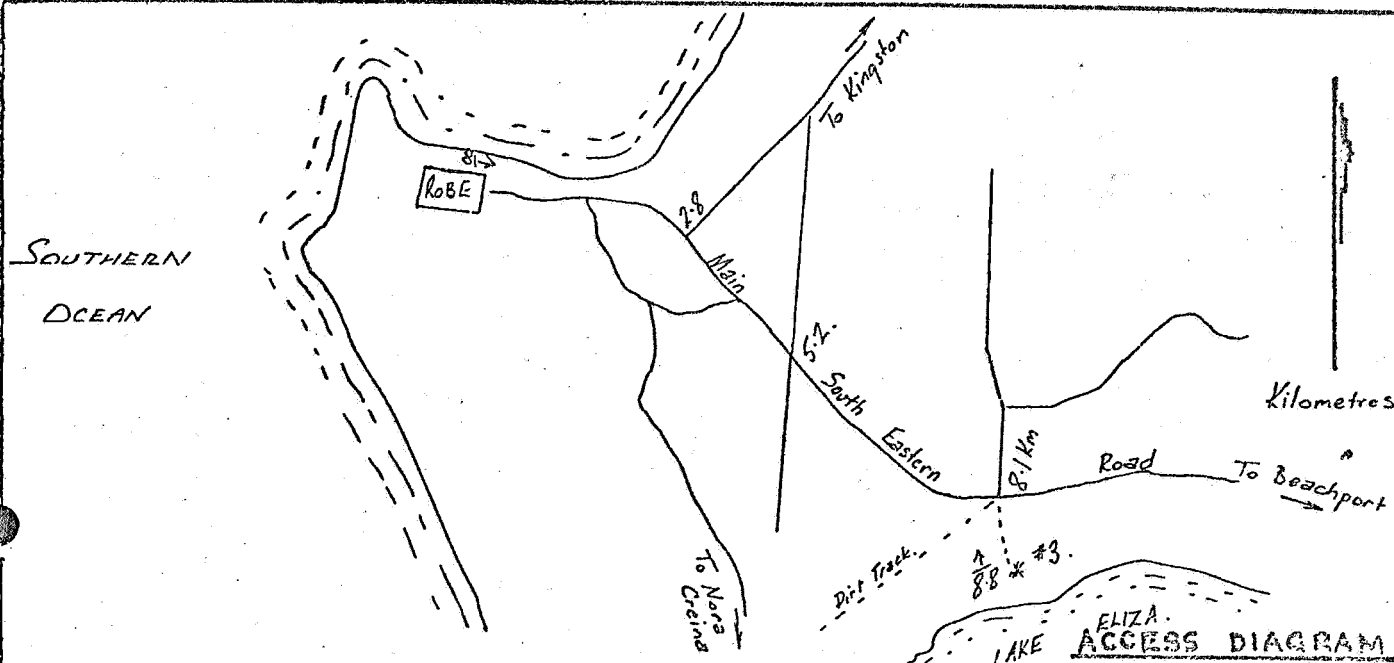
DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 2343 R.L. 1.856
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13147 FOLIO 5... SURVEYED BY: J. Walter
 FILM: PHOTO: RUN: DATE OF SURVEY: 23.5.75

DEPARTMENT OF SERVICES AND PROPERTY

✓ 075

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #3



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. 1.124

FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P13147 FOLIO 8 SURVEYED BY: [Signature]

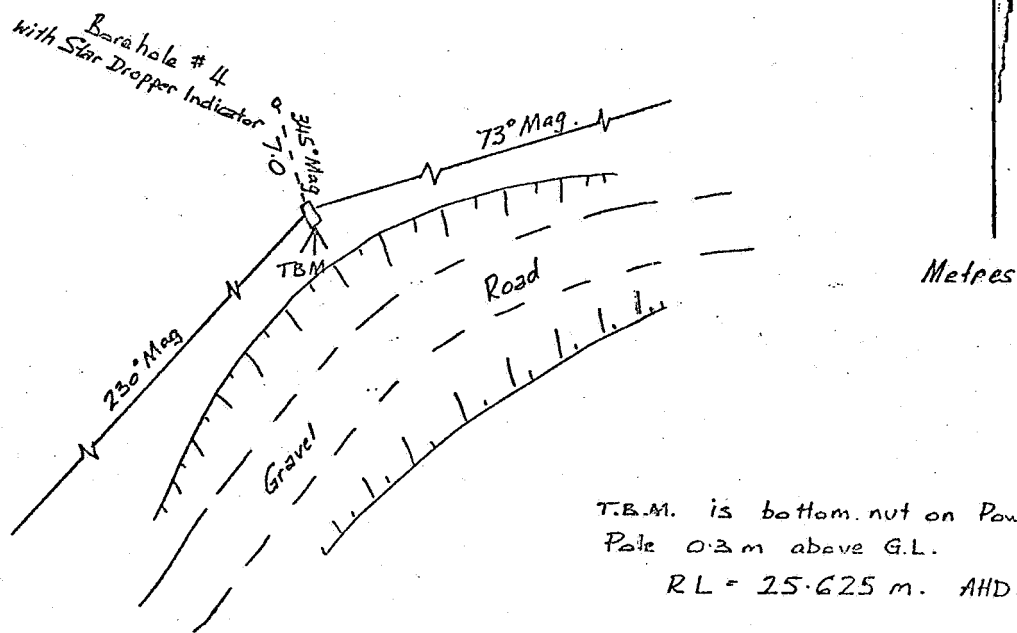
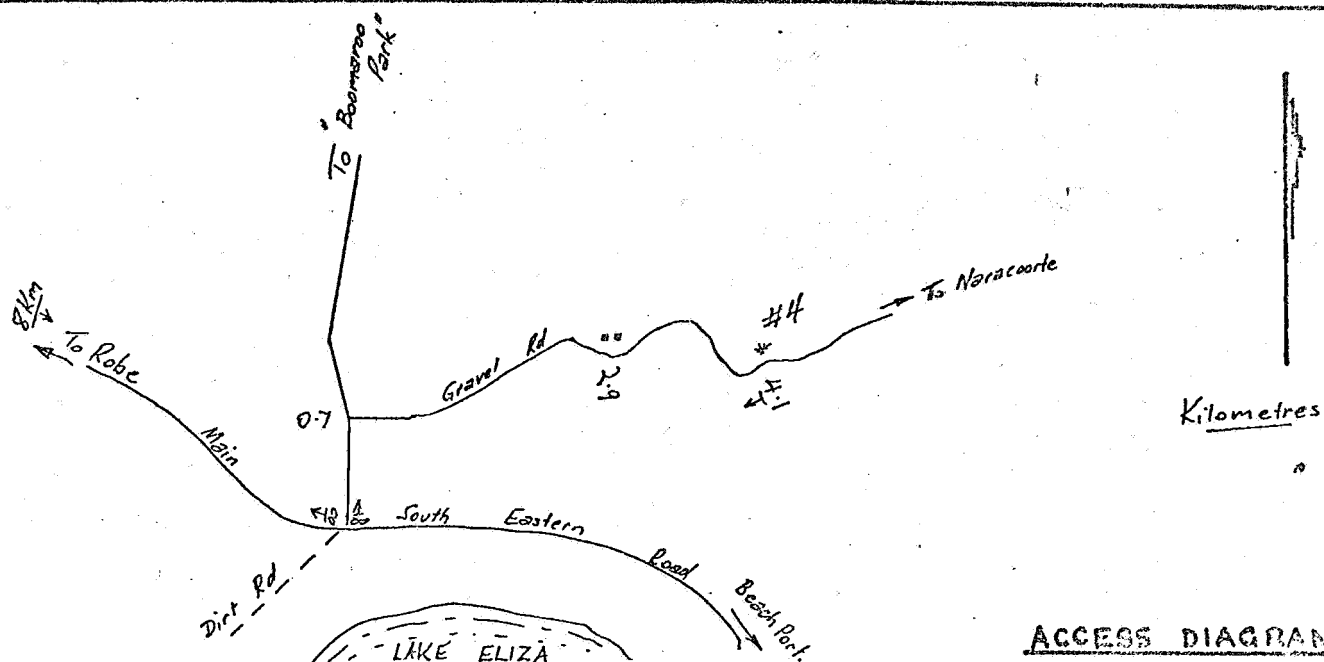
FILM: PHOTO: RUN: DATE OF SURVEY: 23-5-75

DEPARTMENT OF SERVICES AND PROPERTY

NO 076
LOG ✓

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #4



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #4	° ' "	° ' "	399500.	5884170.	25.14.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 2333 RL. 4.291

FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOLP13147 FOLIO 9 SURVEYED BY: L. WALTER

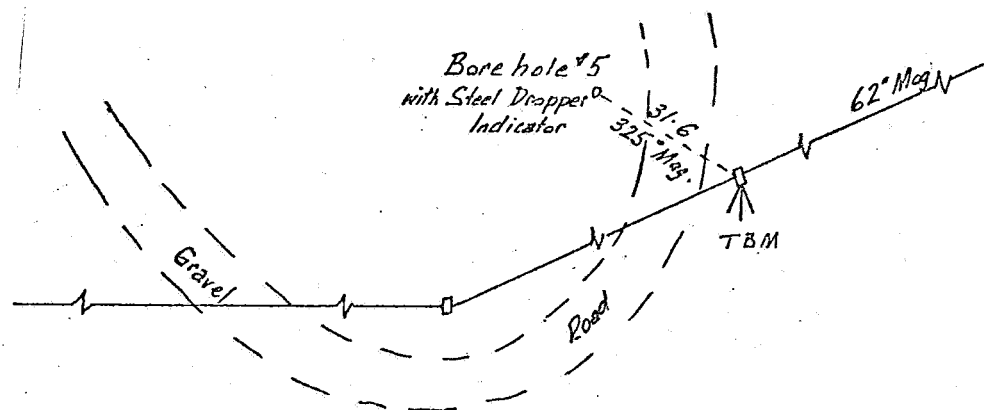
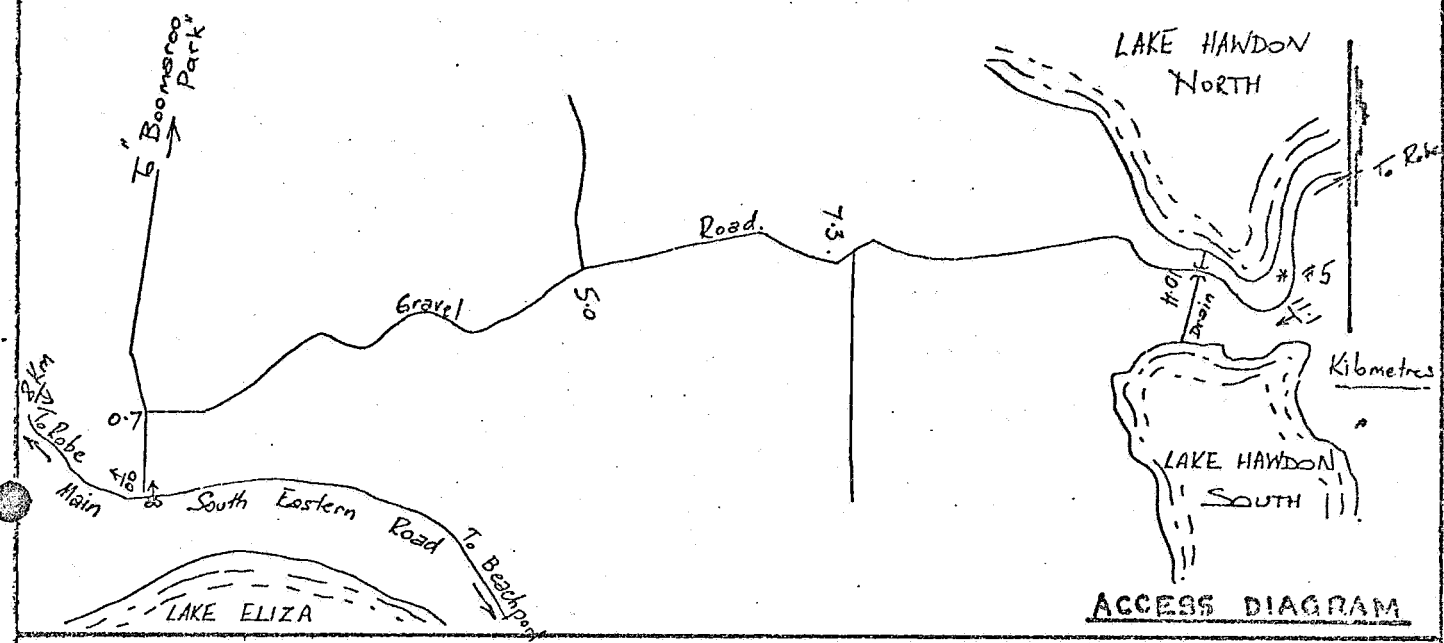
FILM: ... PHOTO: ... RUN: ... DATE OF SURVEY: 23-5-75

DEPARTMENT OF SERVICES AND PROPERTY

✓ 077

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN. Bore Hole #5



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

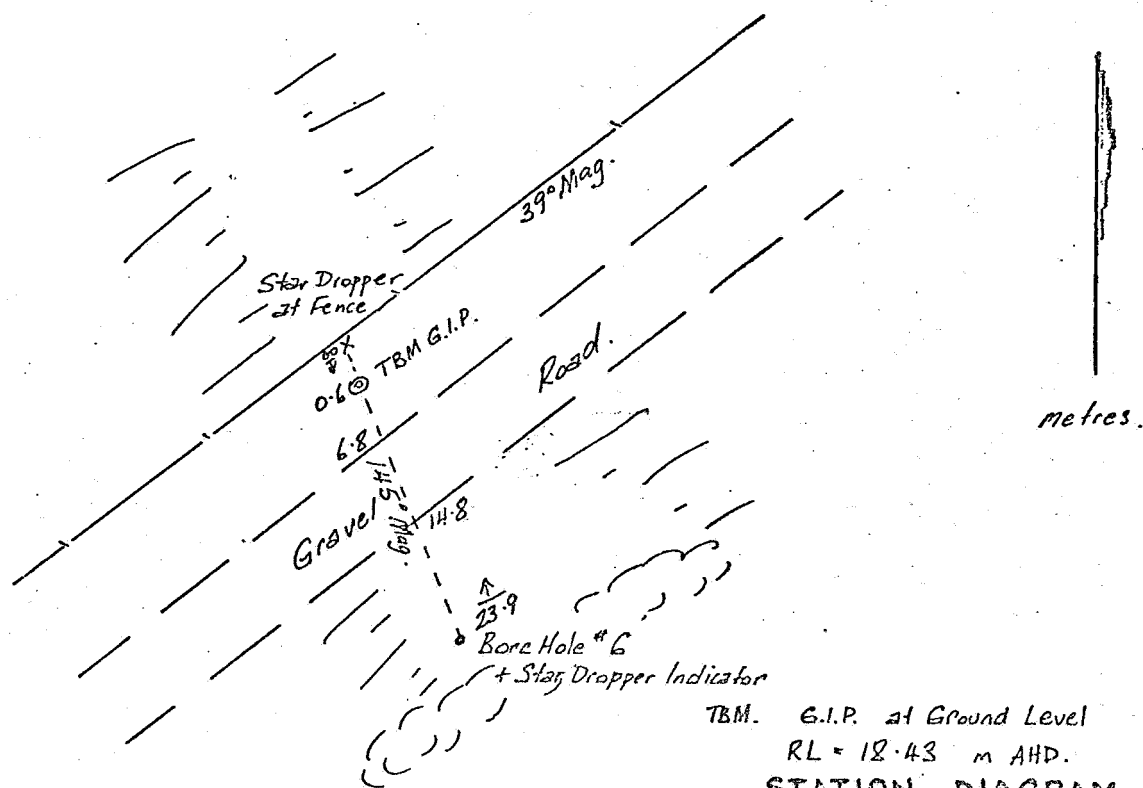
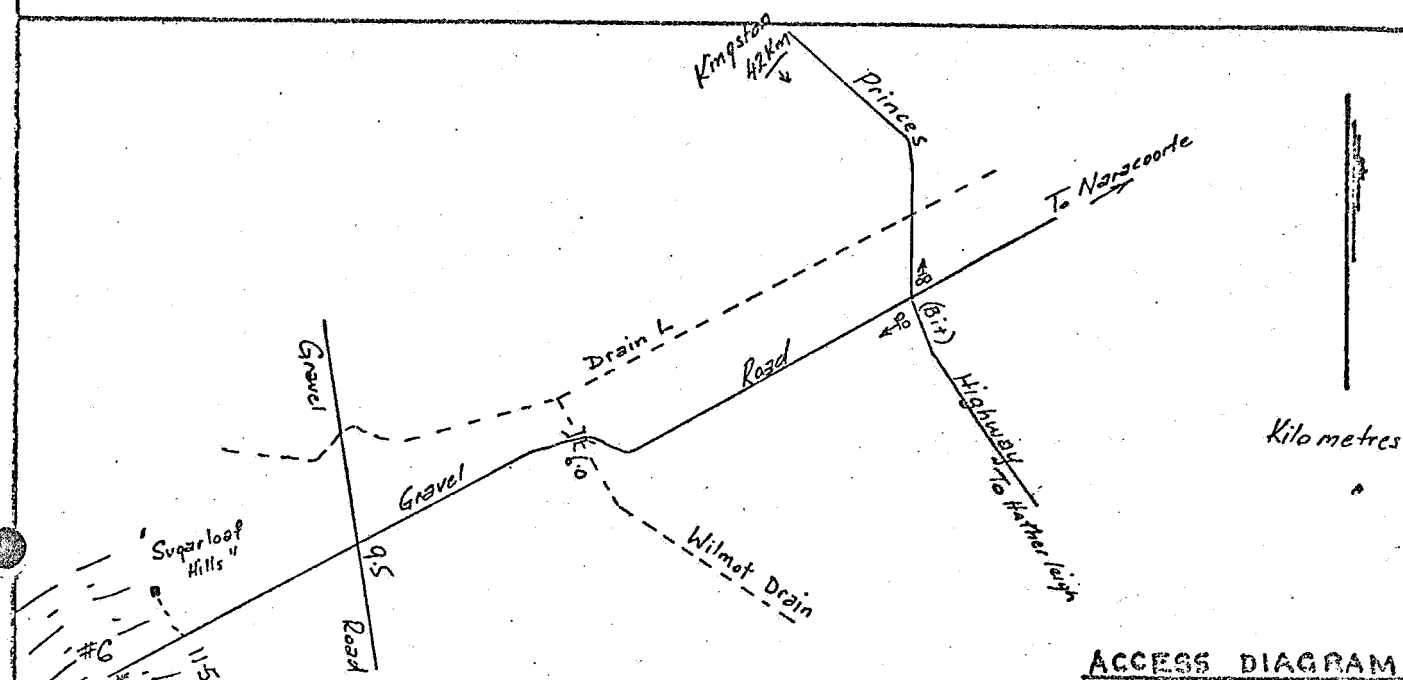
STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #5	° ' "	° ' "	405970	5884590	5.119
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 2329. RL... 5.373
FIELD BOOK: VOL. FOLIO GRID AMG Zone 54
LEVEL BOOK: VOL. P13147 FOLIO 10. SURVEYED BY: G. G. G. G.

STN.

Bore Hole
6



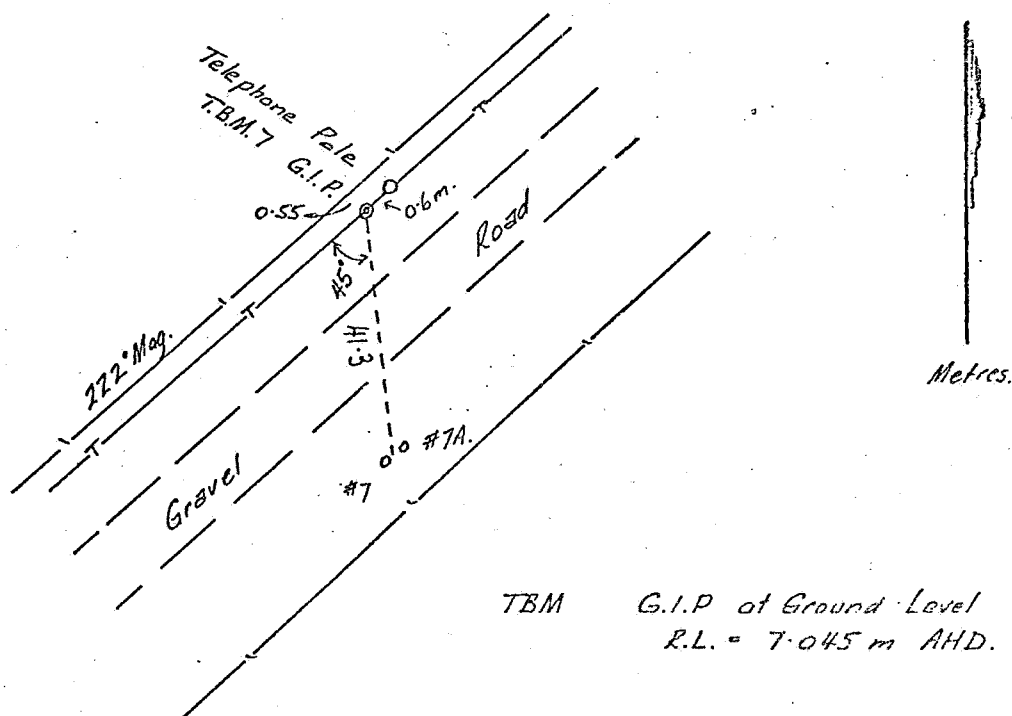
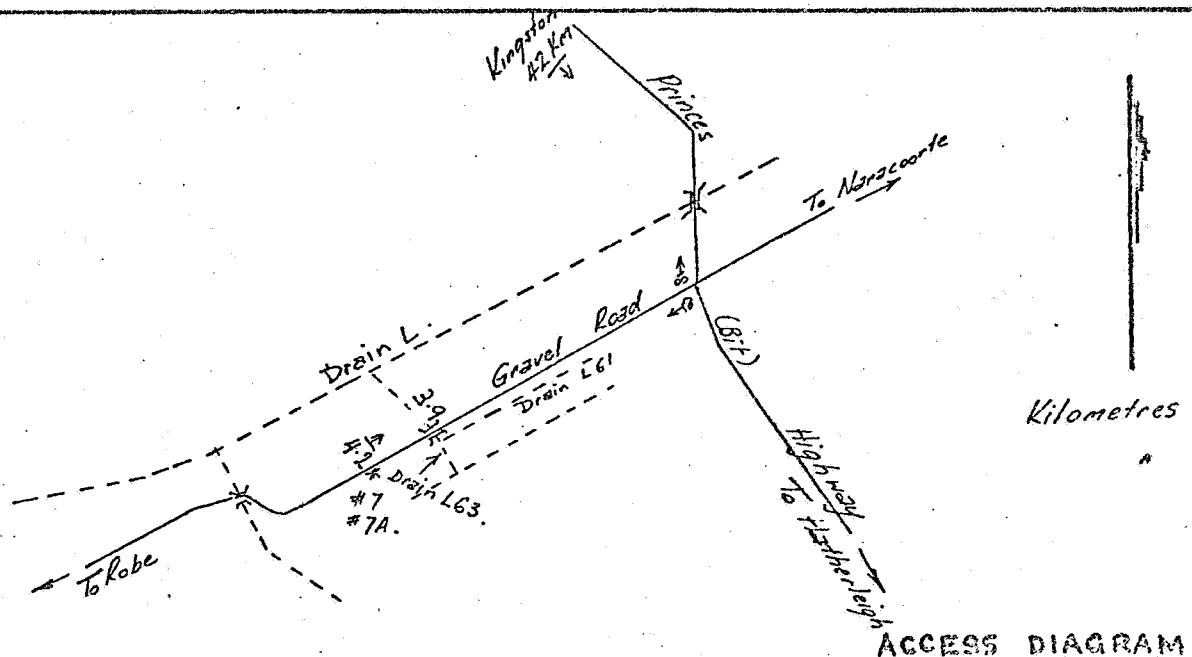
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hde #6	0 1 E	0 1 D	409260'	5887250'	18.62
	0 1 N	0 1 R	.	.	.
	0 1 W	0 1 D	.	.	.
	0 1 E	0 1 R	.	.	.
	0 1 W	0 1 R	.	.	.
	0 1 E	0 1 R	.	.	.

DATUM OF LEVELS: *AHD*... ORIGIN OF LEVELS: *B.M. 2327* RL... *5.628*
FIELD BOOK: VOL. FOLIO GRID *AMG* Zone *54*
LEVEL BOOK: VOL. *P13147* FOLIO *11* SURVEYED BY : *Waller*
FILM: PHOTO: RUN: DATE OF SURVEY: *24th 5th 75*

079

STN.

Bore Hole
7. 7A



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	P.L.
Bore hole # 7	0 1 1	0 1 1	415380.	5891600.	7.0
	0 1 1	0 1 1	.	.	.
Bore hole # 7A.	0 1 1	0 1 1	415380.	5891600.	7.0
	0 1 1	0 1 1	.	.	.
	0 1 1	0 1 1	.	.	.

DATUM OF LEVELS: *AHD*... ORIGIN OF LEVELS: *BM 2372* RL... *7.050*

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

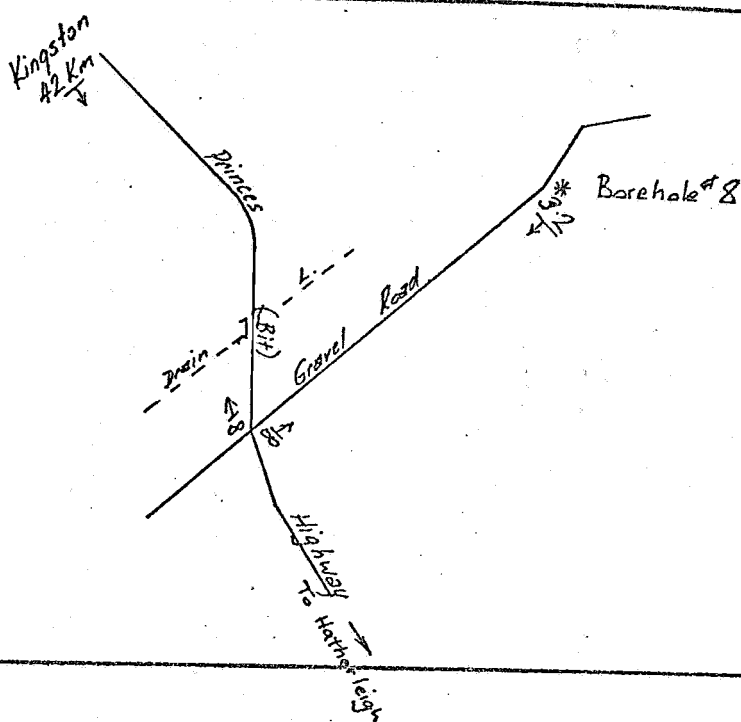
LEVEL BOOK: VOL. *P13147* FOLIO *13* SURVEYED BY : *Shelton*...

DEPARTMENT OF SERVICES AND PROPERTY

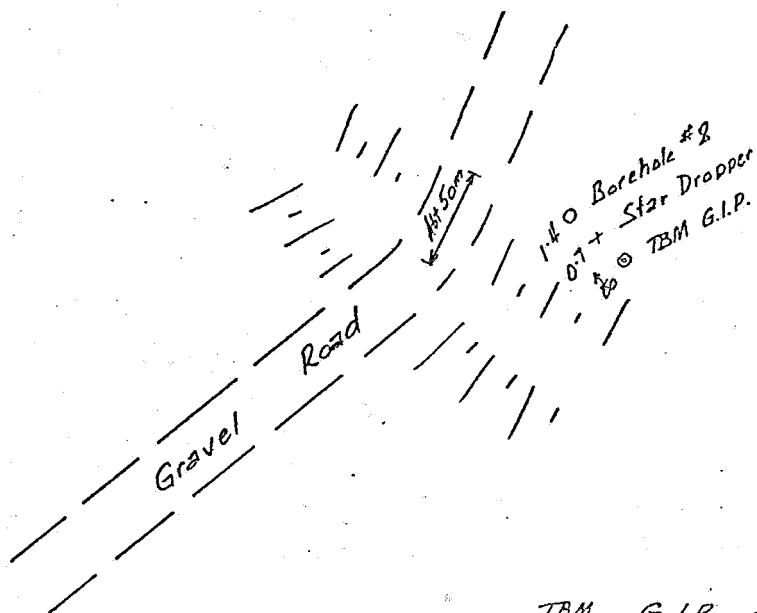
PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

080



ACCESS DIAGRAM



TBM. G.I.P. at Ground Level
R.L. = 28.254 m AHD.

37.04/29

120.0668

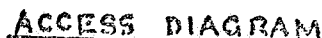
STATION DIAGRAM

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: *SA Miller*
 FILM: PHOTO: RUN: DATE OF SURVEY: 2-6-76

NO LOG 081

STN. Bore Hole # 9


$$RL = 20.333 \text{ m AHD}$$

STATION DIAGRAM

STATION DIAGRAM					
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #9	0 1 "	0 1 "	423 780	589 780	20
	0 1 "	0 1 "			
	0 1 "	0 1 "			
	0 1 "	0 1 "			
	0 1 "	0 1 "			
	0 1 "	0 1 "			

DATUM OF LEVELS: *AHD*... ORIGIN OF LEVELS: *BM 2317* RL. *21.140*
FIELD BOOK: VOL. FOLIO. GRID *AMG Zone 54*.
LEVEL BOOK: VOL. *P/3147* FOLIO *15* SURVEYED BY : *Walter*
FILM: PHOTO: RUN: DATE OF SURVEY: *30-5-75*

DEPARTMENT OF SERVICES AND PROPERTY

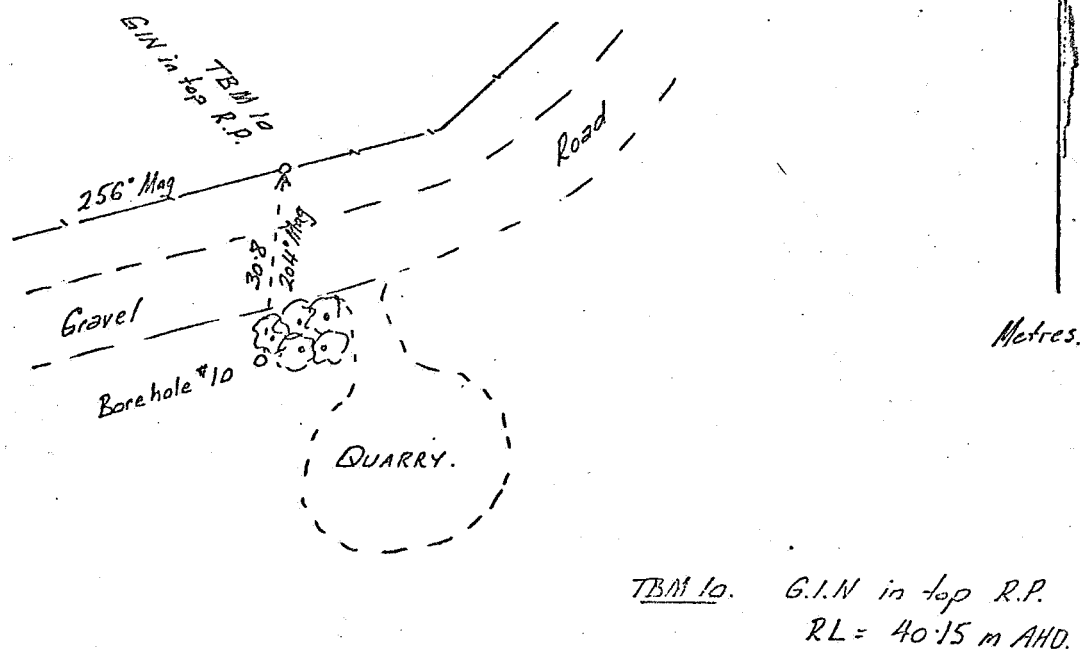
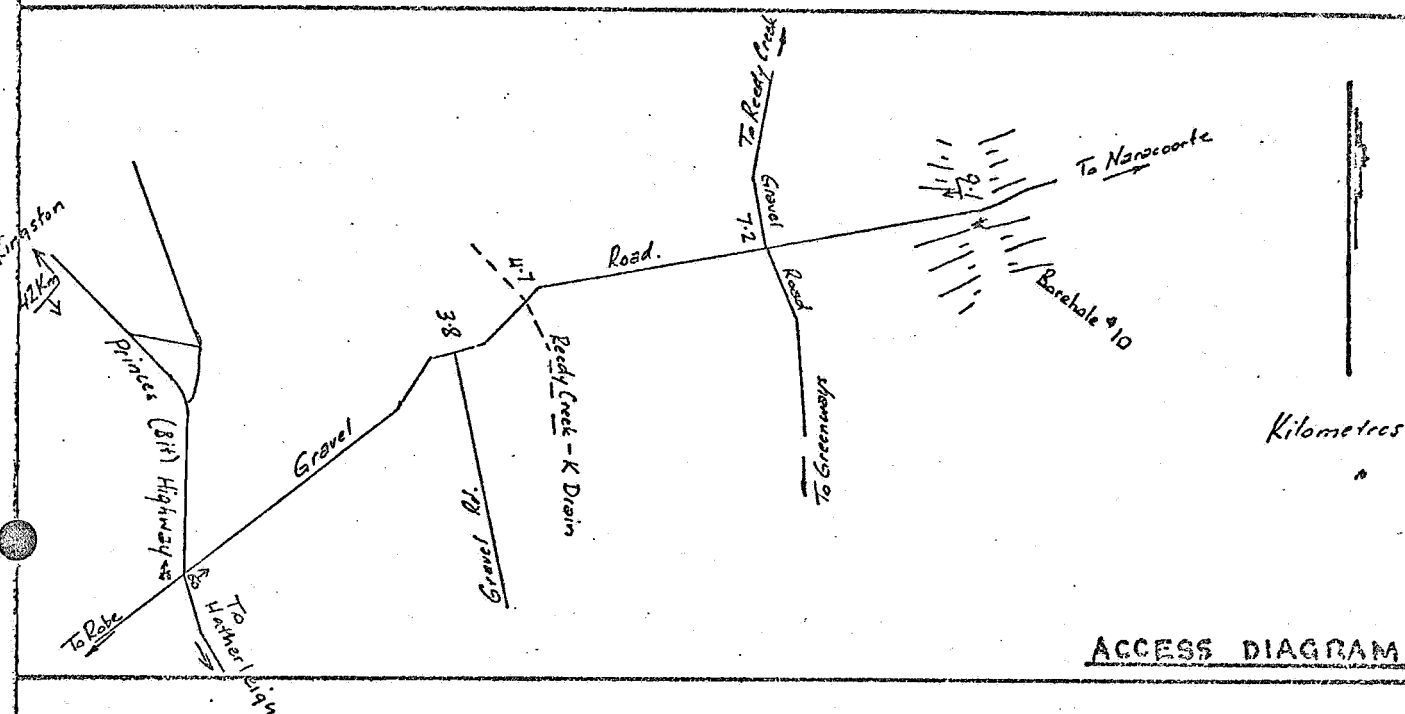
No Log

082

PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore hole
#10



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #10	0 1 N	0 1 W	426430.	5898340.	37.97
	0 1 N	0 1 W	.	.	.
	0 1 N	0 1 W	.	.	.
	0 1 N	0 1 W	.	.	.
	0 1 N	0 1 W	.	.	.
	0 1 N	0 1 W	.	.	.

DATUM OF LEVELS: *A.H.D.* ORIGIN OF LEVELS: *BM 2313* RL. *22.578*
FIELD BOOK: VOL. *K 11359* FOLIO *1* GRID: *AMG Zone 54*
LEVEL BOOK: VOL. *P13147* FOLIO *25* SURVEYED BY: *W. J. Miller*
FILM: PHOTO: RUN: DATE OF SURVEY: *28-5-75*

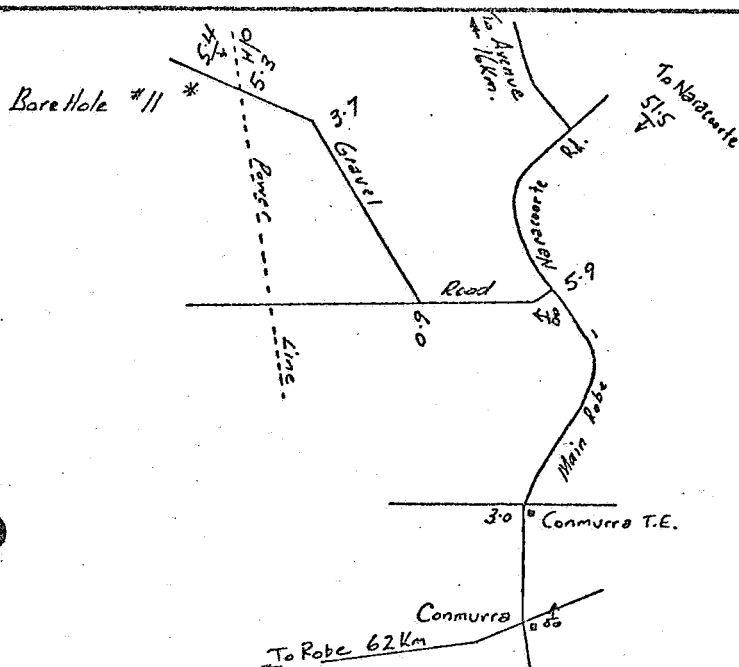
DEPARTMENT OF SERVICES AND PROPERTY

083

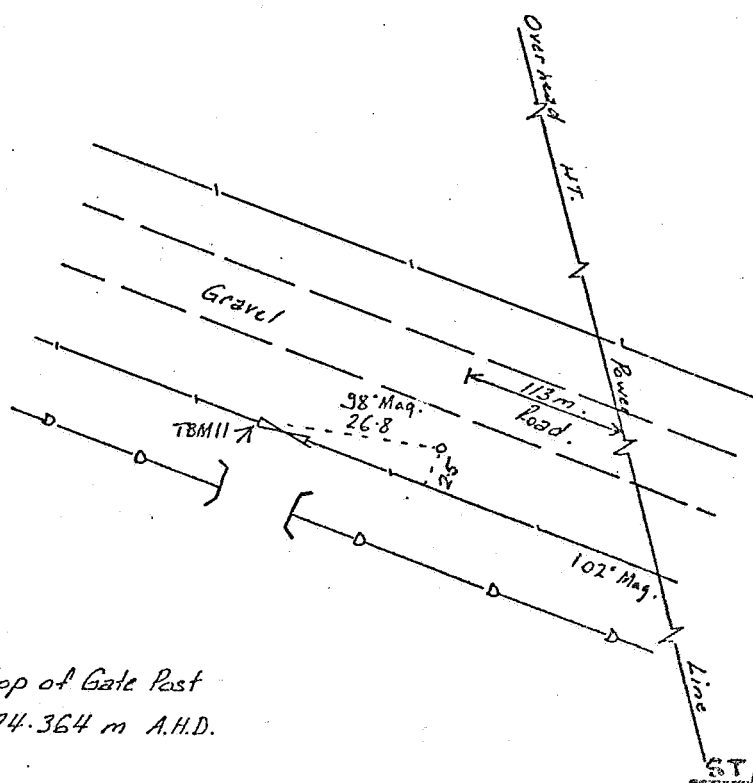
PROJECT ROBE - NARALDOOTE COASTAL SURVEY

STN.

Bore Hole #11



ACCESS DIAGRAM



STATION DIAGRAM

TBM 11 GIN in top of Gate Post
RL = 24.364 m A.H.D.

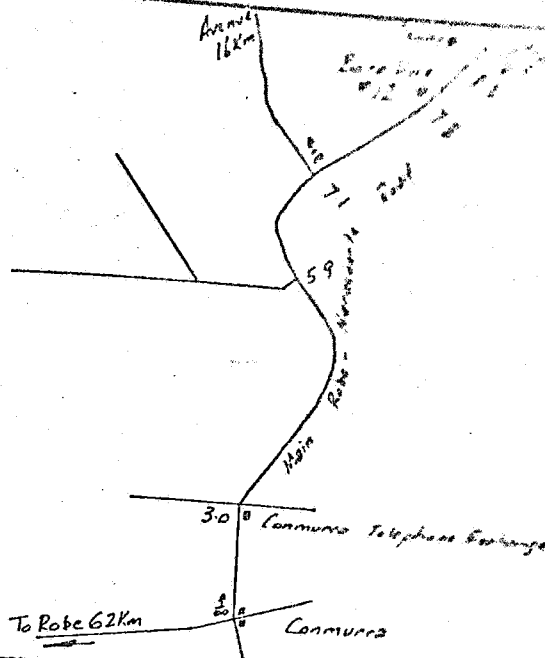
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #11	0 1 0	6 1 0	432360	5898290	23.20
	0 1 0	6 1 0			
	0 1 0	6 1 0			
	0 1 0	6 1 0			
	0 1 0	6 1 0			

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 2312 RL. 23.07
FIELD BOOK: VOL. FOLIO. GRID AMG Zone 54.
LEVEL BOOK: VOL. P13147 FOLIO 22 SURVEYED BY: *ab Miller*
FILM: PHOTO: RUN: DATE OF SURVEY: 28 Nov 54

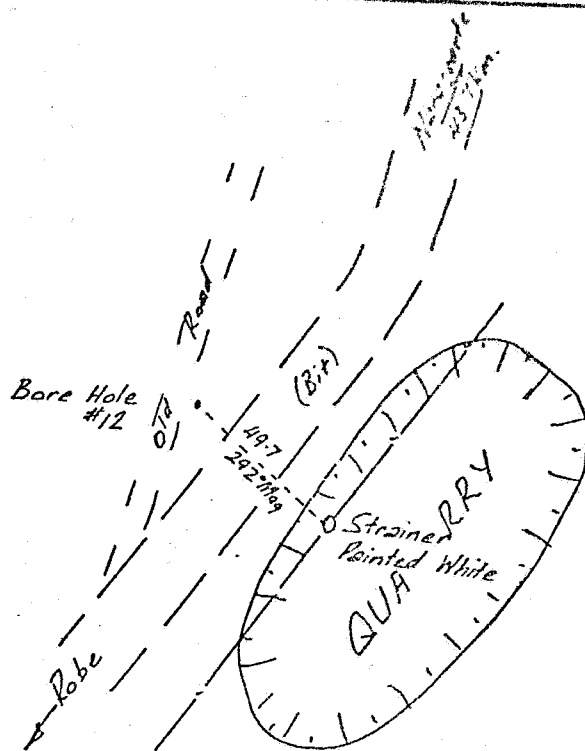
DEPARTMENT OF SERVICES AND PROPERTIES

PROJECT ROBE - NARACOOPE

084



ACCESS DIAGRAM



Metres.

STATION DIAGRAM

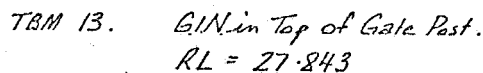
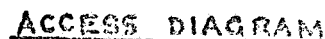
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #12	° ' "	° ' "	437150	5897350	33.24
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2309. RL. 28.304
 FIELD BOOK: VOL K11359 FOLIO 12 GRID AMG Zone 54
 LEVEL BOOK: VOL P13150 FOLIO 14 SURVEYED BY: [Signature]
 FILM: PHOTO: RUN: DATE OF SURVEY: [Signature]

NO LOG .085

STN.

Bore 100
#13



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #13	0 1 0	0 1 0	439 260	5899970	27
	0 1 0	0 1 0			
	0 1 0	0 1 0			
	0 1 0	0 1 0			
	0 1 0	0 1 0			
	0 1 0	0 1 0			

DATUM OF LEVELS: *AHD*... ORIGIN OF LEVELS: *BM 2307* RL. *26.940*
FIELD BOOK: VOL. FOLIO. GRID *AM6 Zone 54*
LEVEL BOOK: VOL. *P13150* FOLIO *15* SURVEYED BY *Shelton*
FILM: PHOTO: RUN: DATE OF SURVEY: *14 Nov 67*

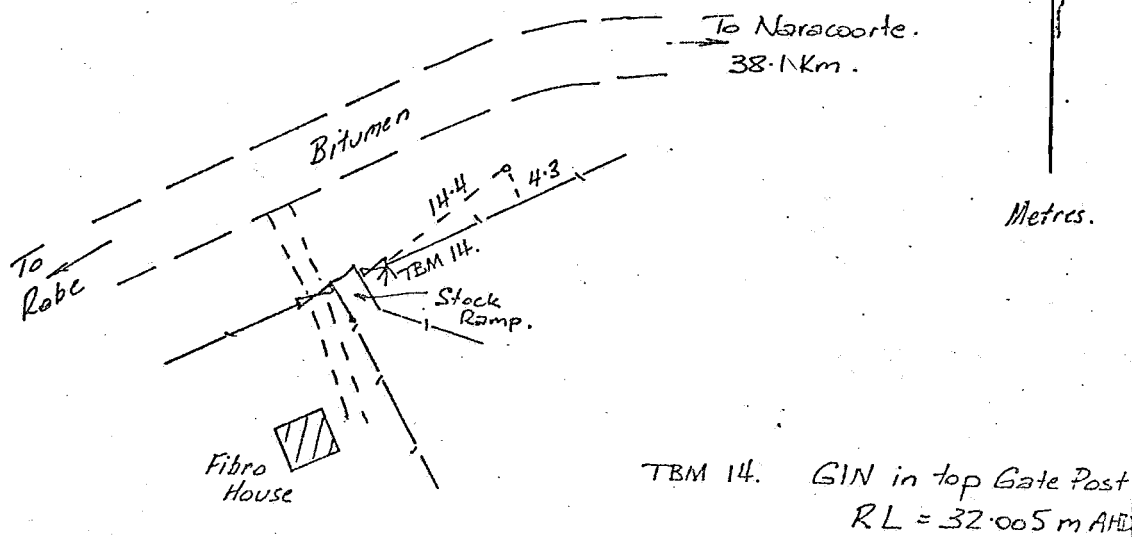
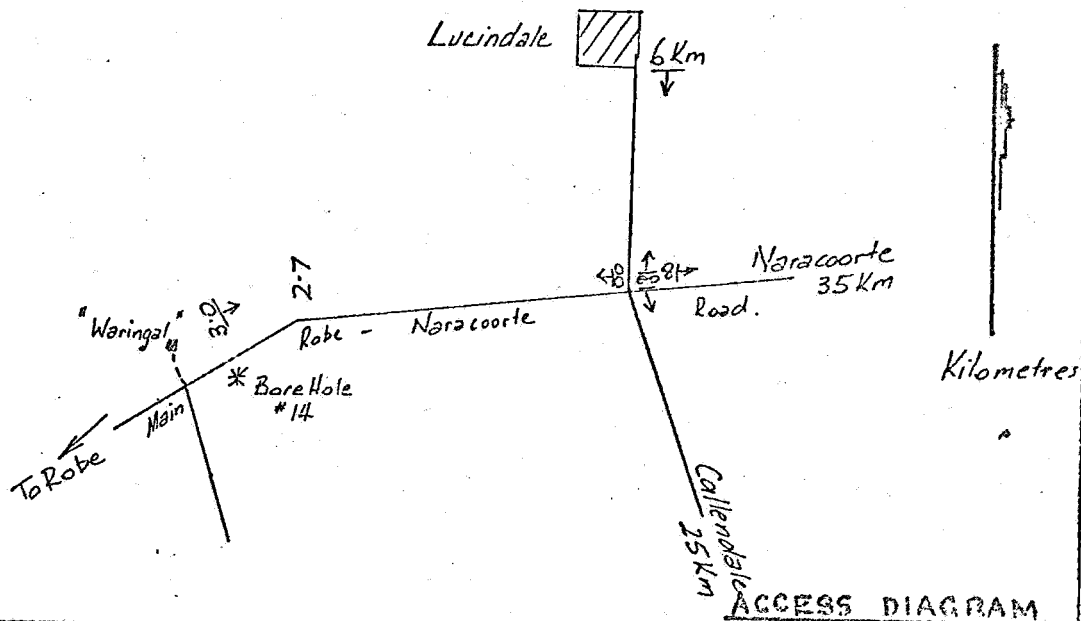
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG. 086

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole #14

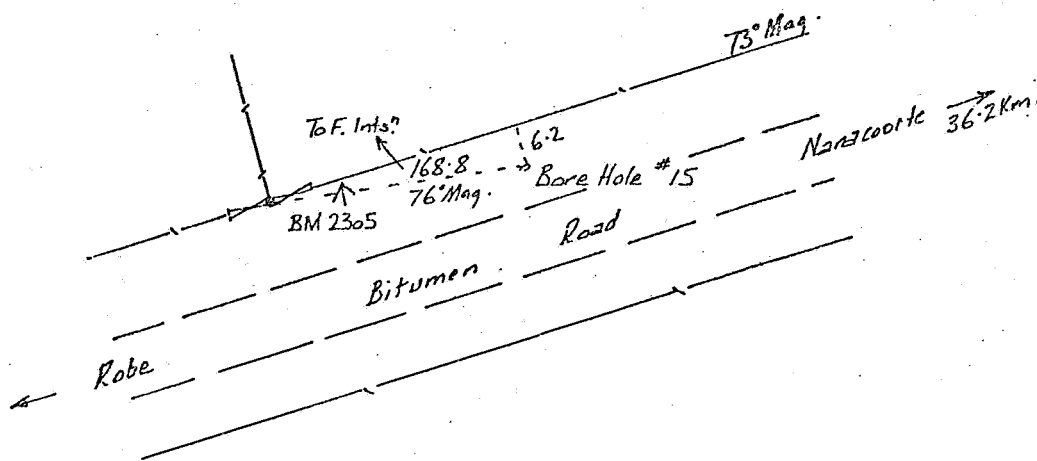
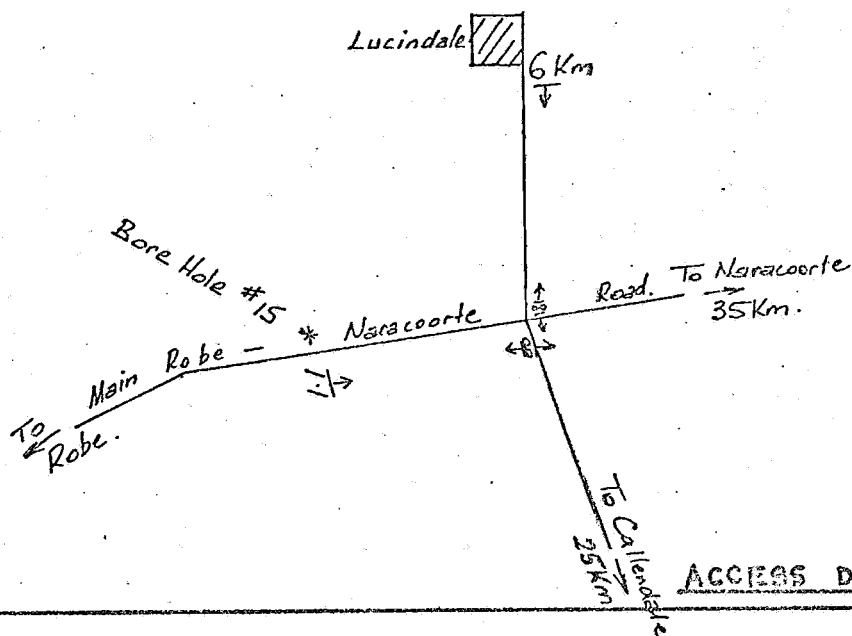


STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #14	31° 14'	144° 09'	440910	5901190	31.14

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 2306 R.L. 31.63
 FIELD BOOK: VOL. FOLIO GRID AM6 Zone 54
 LEVEL BOOK: VOL. P13150 FOLIO 16 SURVEYED BY: J. M. M. J.
 FILM: PHOTO: RUN: DATE OF SURVEY: 14-6

PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore Hole
#15

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #15	0 1 "	0 1 "	442800	5901680	27.36
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.

DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 2305 RL. 27.32

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

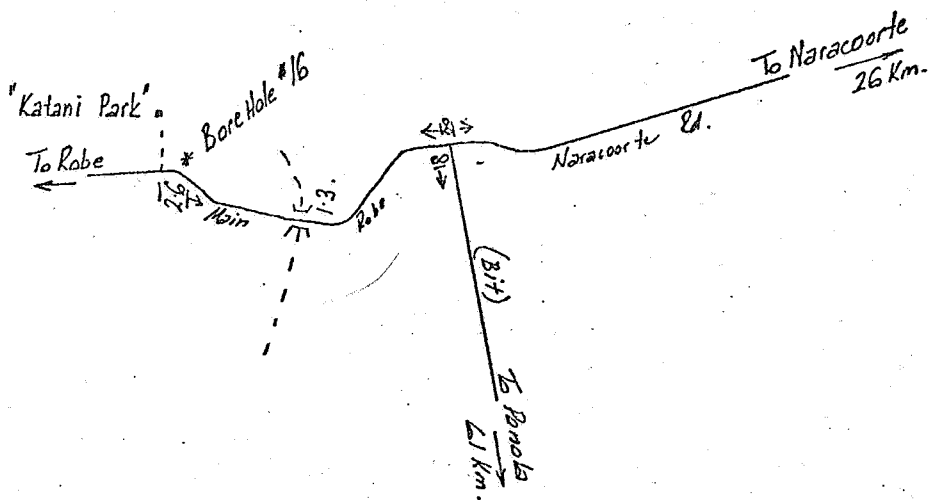
LEVEL BOOK: VOL. P.150 FOLIO 17... SURVEYED BY: J. Miller

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

PROJECT ROBE - NARACORTE COASTAL SURVEY

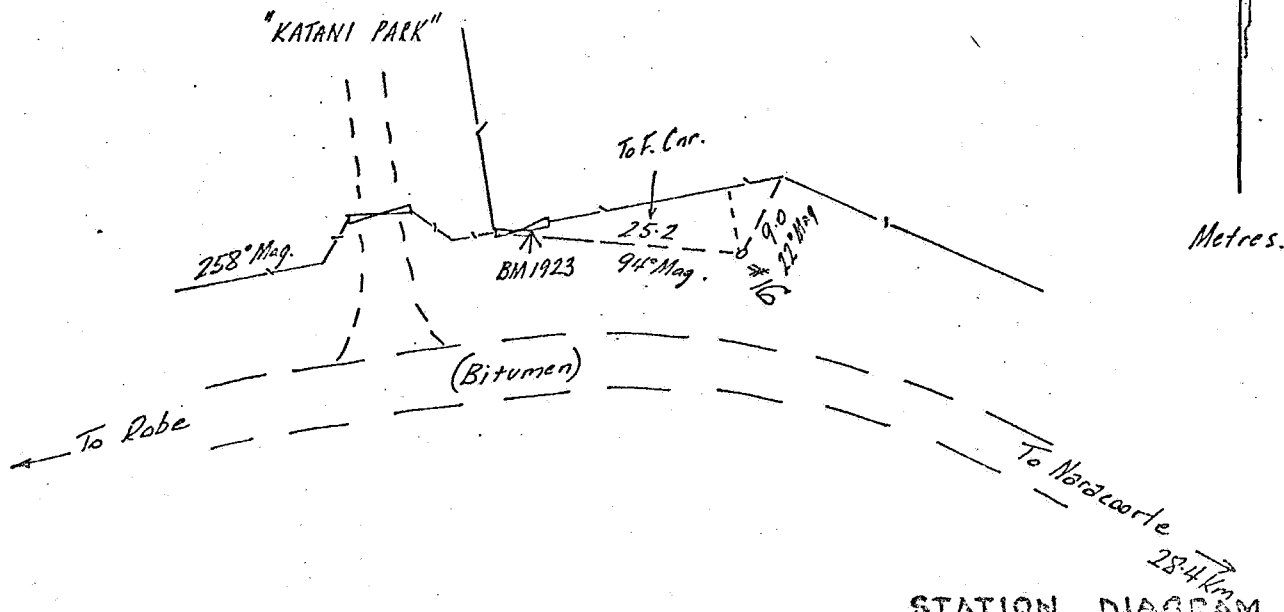
STN.

Bore Hole #16



Kilometres

ACCESS DIAGRAM



Metres.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #16	0 1 1	0 1 1	450600	5902740	51.1
	0 1 1	0 1 1	.	.	.
	0 1 1	0 1 1	.	.	.
	0 1 1	0 1 1	.	.	.
	0 1 1	0 1 1	.	.	.

DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 1923 RL. 50.407
 FIELD BOOK: VOL. FOLIO. GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13150 FOLIO 13... SURVEYED BY: J. W. H. ...
 FILM: ... PHOTO: ... RUN: ... DATE OF SURVEY: 12 Nov 1975

(BMR)

6923 1419

DEPARTMENT OF SERVICES AND PROPERTY

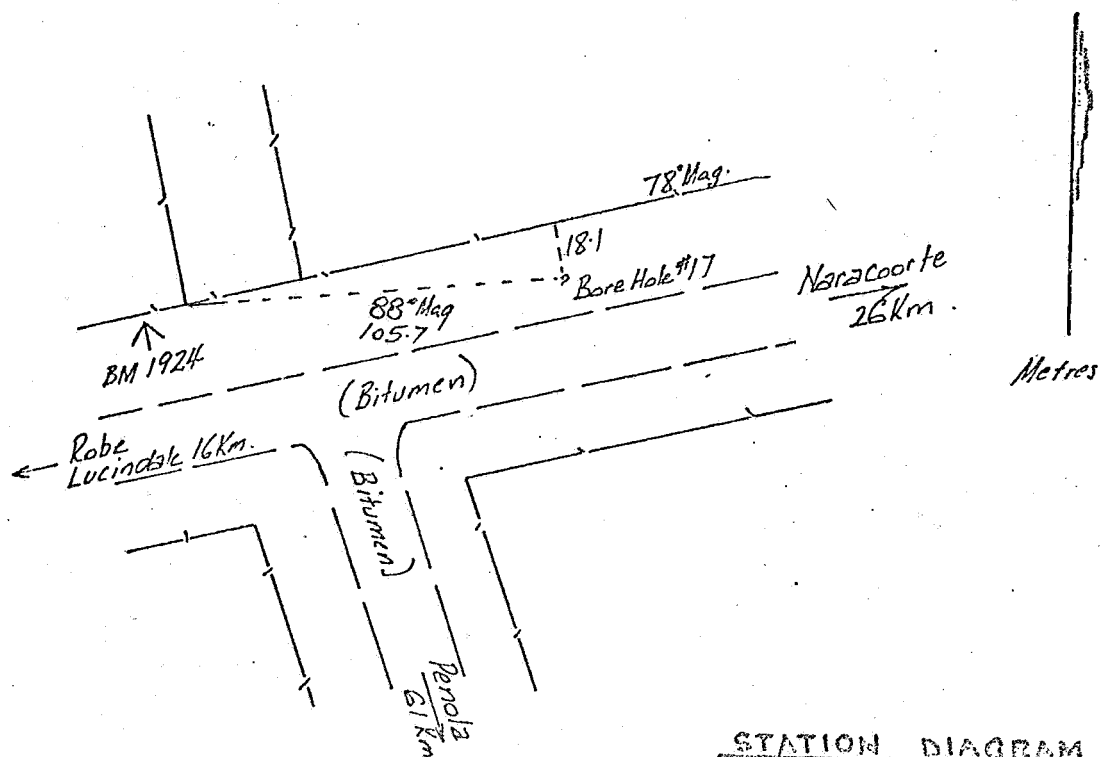
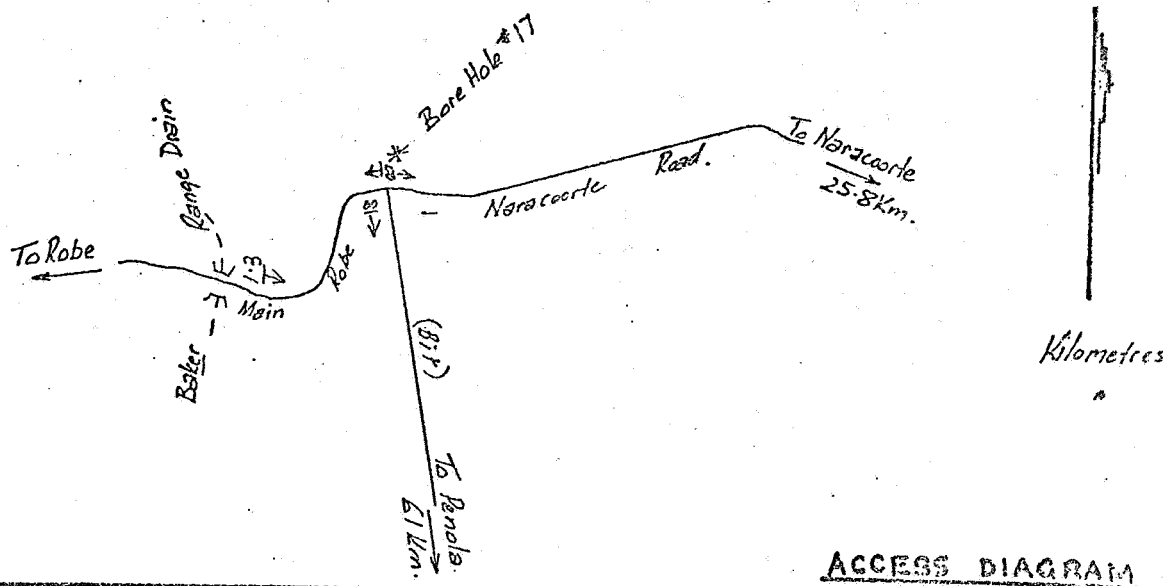
NO LOG

089

PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore Hole #17



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	P.L.
Bore Hole #17	0 1	0 1	452 860	5903020	36.8
	0 1	0 1	.	.	.
	0 1	0 1	.	.	.
	0 1	0 1	.	.	.
	0 1	0 1	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 1924 P.L. 36.605

FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P13150 FOLIO 13 SURVEYED BY: J. Walter

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

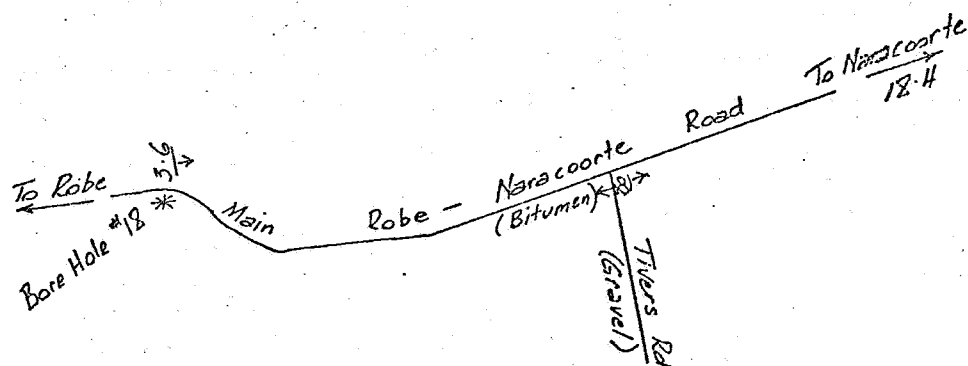
DEPARTMENT OF SERVICES AND PROPERTY

No 609

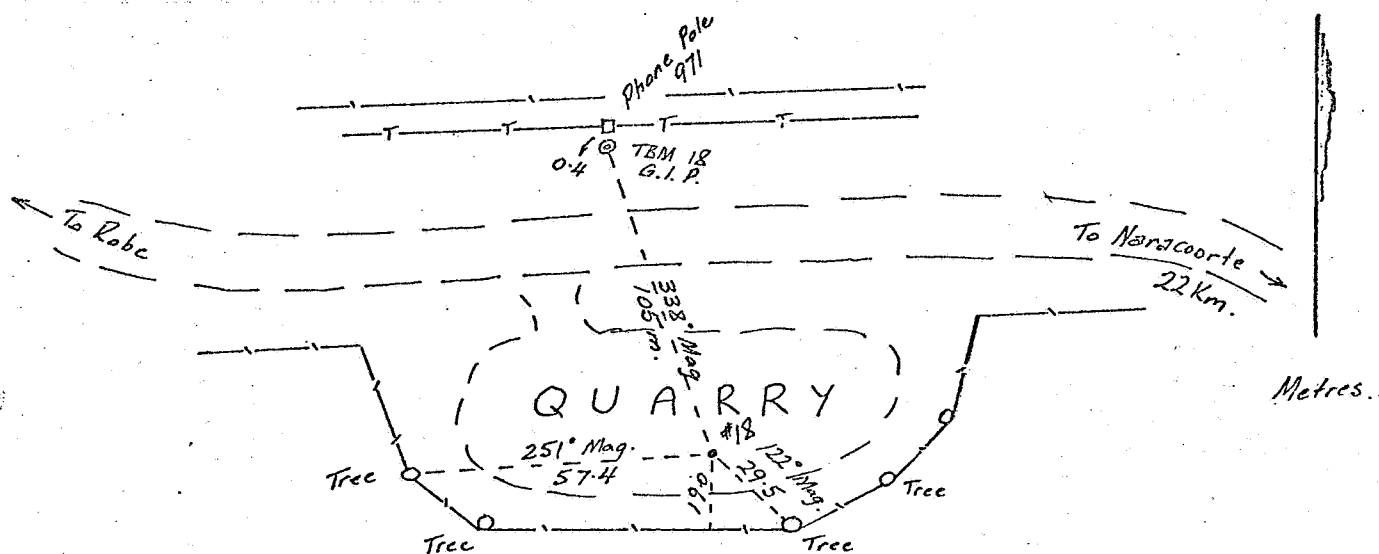
090

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.

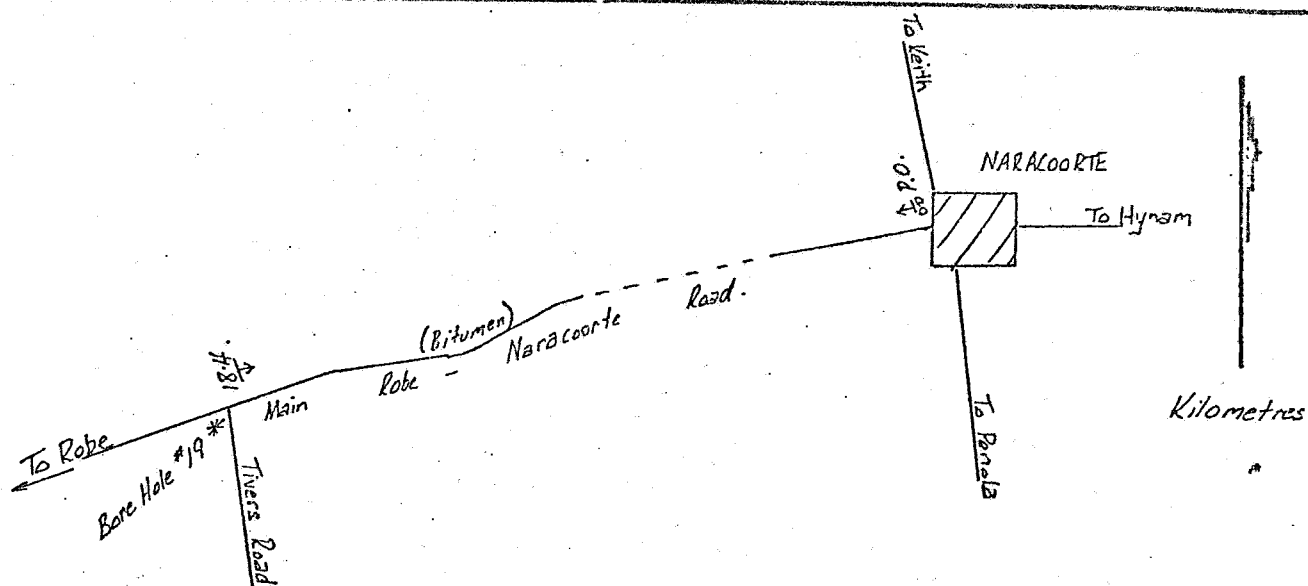
STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	E.L.
Bore Hole #18	° ' "	° ' "	456500	5903240	46.9
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

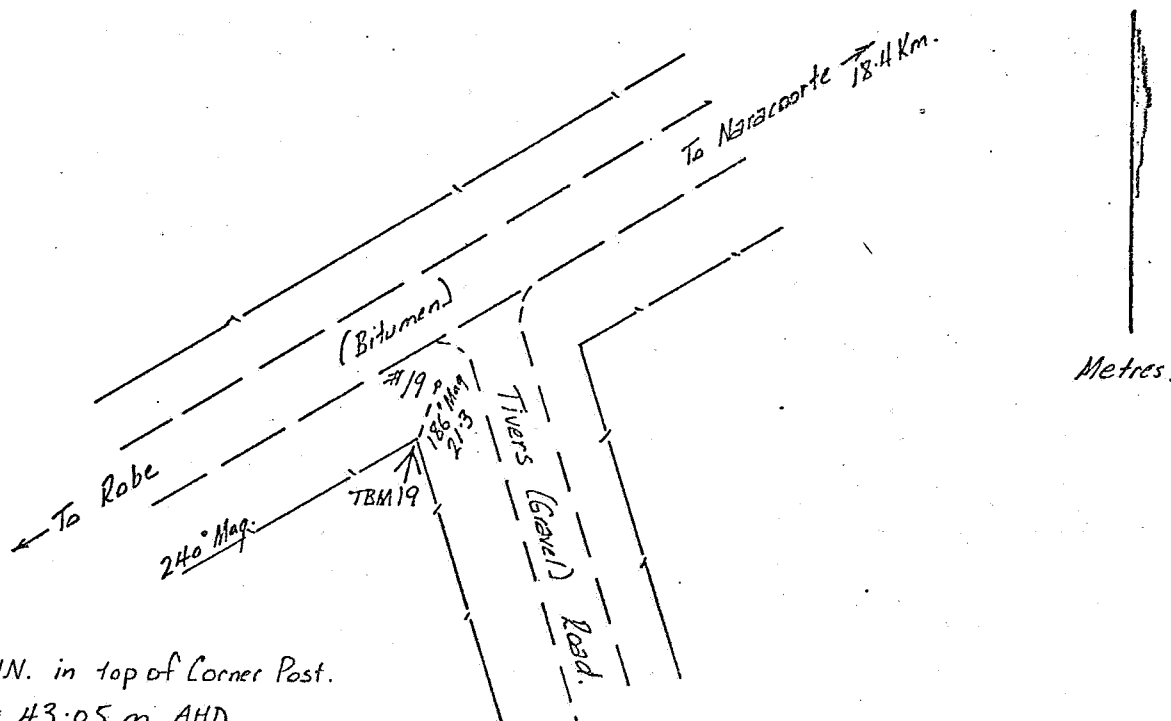
DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 1927. RL. 42.925
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13150 FOLIO 12. SURVEYED BY: J. Walter.
 FILM: PHOTO: RUN: DATE OF SURVEY: 13-6-75.

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	RL.
Bore Hole #19	34° 1' 0"	148° 1' 0"	459850.	5903800.	41.6
	34° 1' 0"	148° 1' 0"	.	.	.
	34° 1' 0"	148° 1' 0"	.	.	.
	34° 1' 0"	148° 1' 0"	.	.	.
	34° 1' 0"	148° 1' 0"	.	.	.

DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM 1928. RL. 40.979.
FIELD BOOK: VOL. FOLIO. GRID AMG. Zone 54.
LEVEL BOOK: VOL. P13149 FOLIO 6. SURVEYED BY: J. Miller.
FILM: PHOTO: RUN: DATE OF SURVEY: 6-6-75

DEPARTMENT OF SERVICES AND PROPERTY

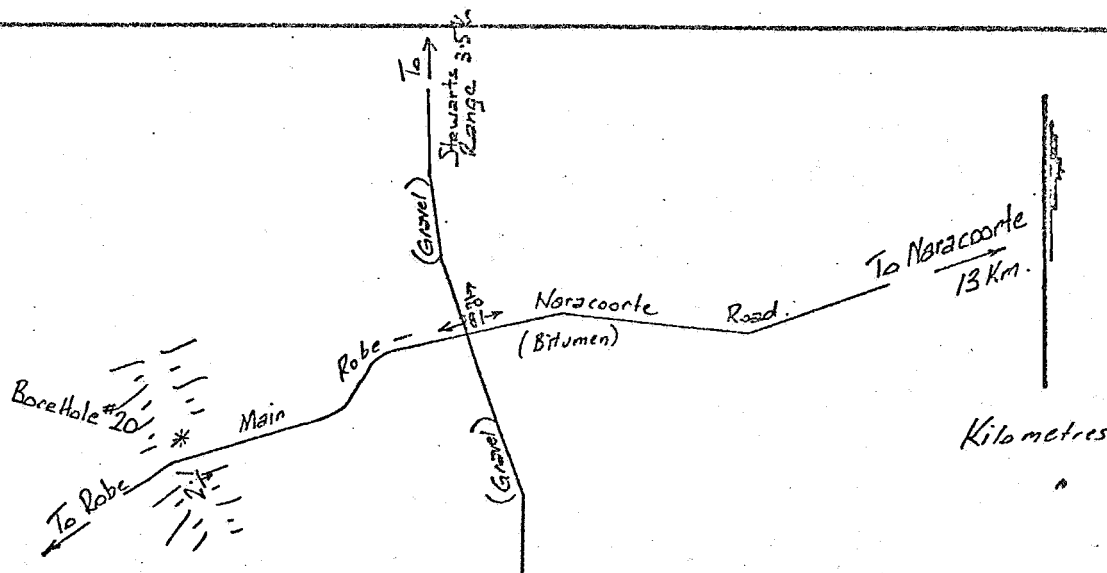
TO 23-16

092

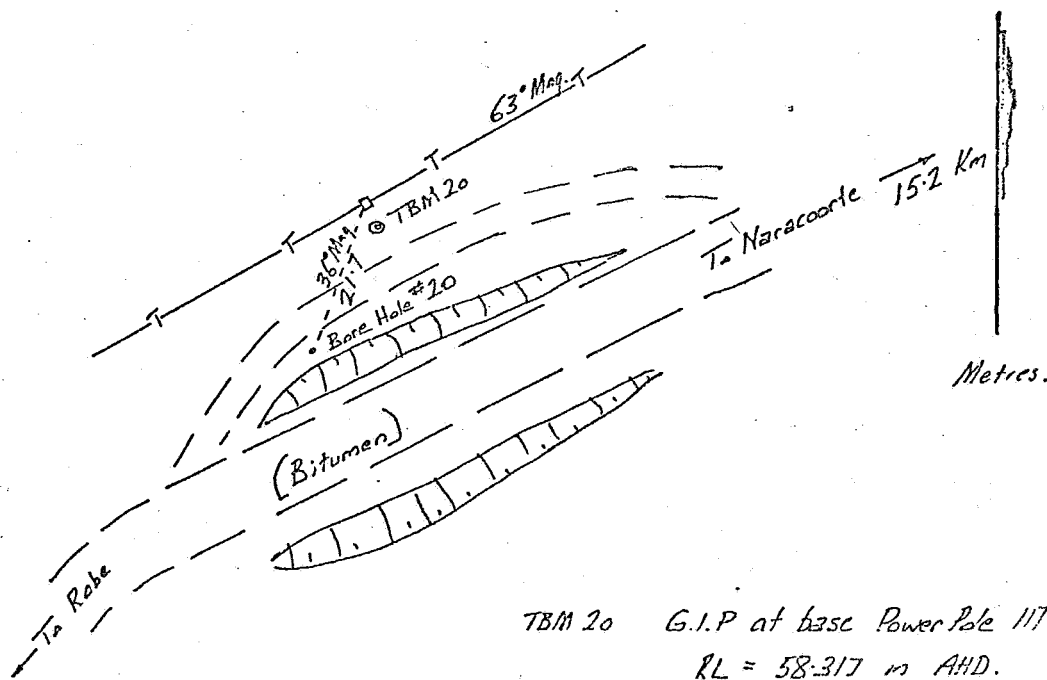
PROJECT ROBE - NARACOORTE COASTAL SURVEY.

STN.

Bore Hole #20



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #20	35° 1' 0"	145° 1' 0"	462890	5904860	57.8
	35° 1' 0"	145° 1' 0"			
	35° 1' 0"	145° 1' 0"			
	35° 1' 0"	145° 1' 0"			
	35° 1' 0"	145° 1' 0"			

DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 1931 RL. 43.47'
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13149 FOLIO 5 SURVEYED BY: M. J. L. L. L.
 FILM: PHOTO: RUN: DATE OF SURVEY: 6-6-75

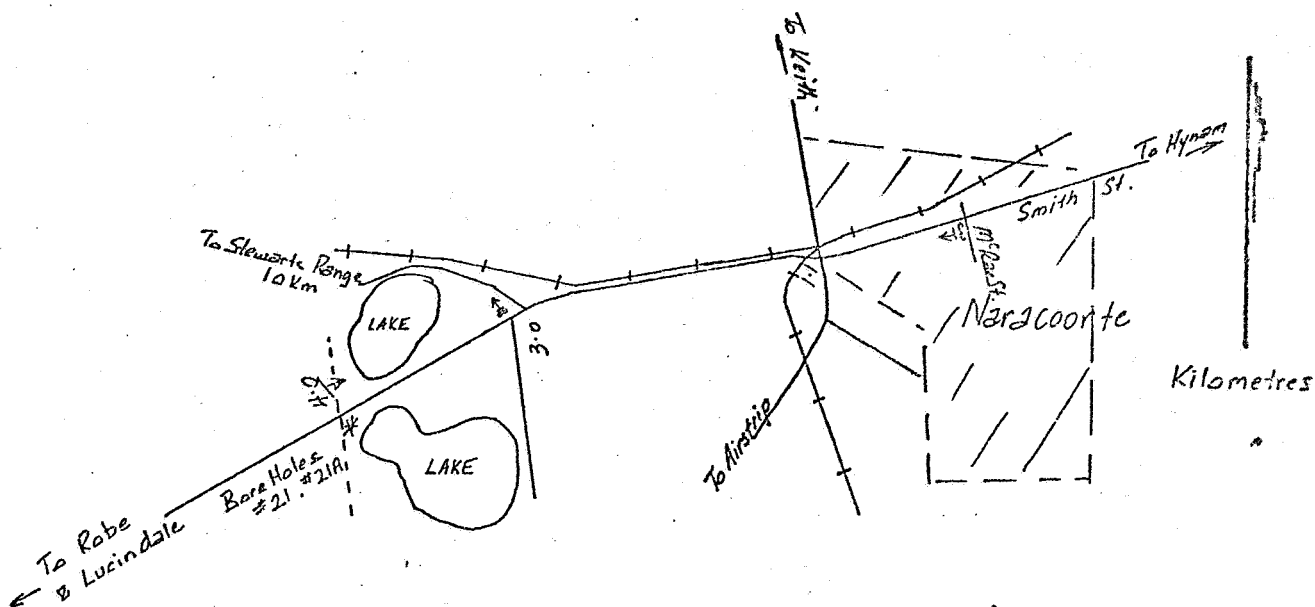
DEPARTMENT OF SERVICES AND PROPERTY

✓ 093

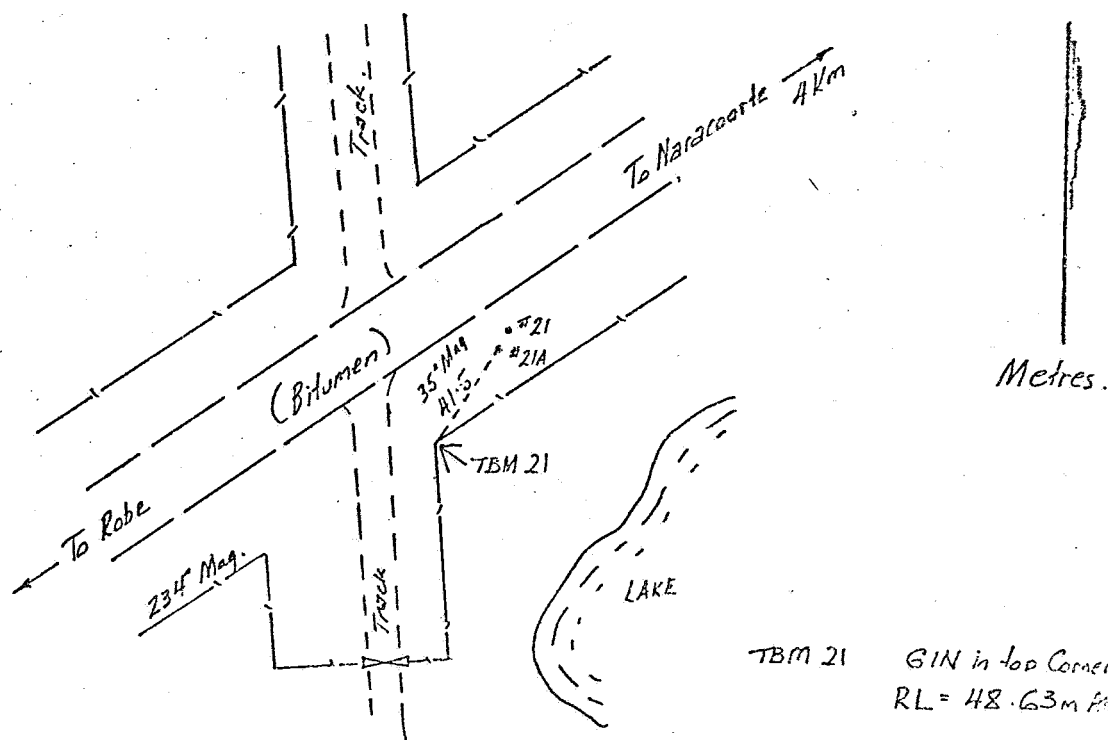
PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole #21, #21A



ACCESS DIAGRAM



TBM 21 GIN in Top Corner Rd.
RL = 48.63m AHD.

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
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

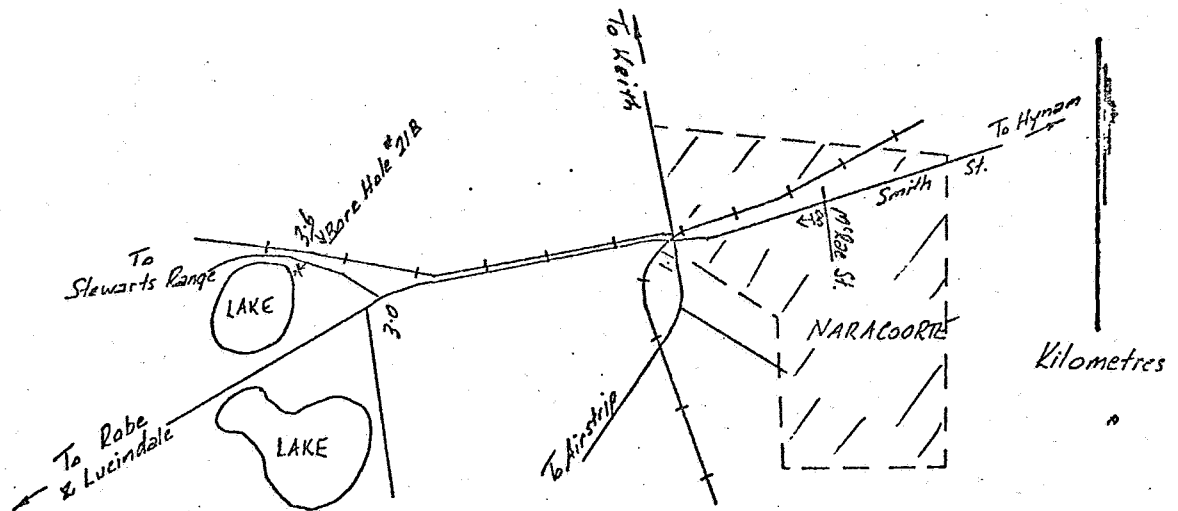
DATUM OF LEVELS: AHD. ORIGIN OF LEVELS: BM. 1937. RL. 48.162
 FIELD BOOK: VOL. FOLIO. GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13/49 FOLIO 8. SURVEYED BY: *Walter*
 FILM: PHOTO: RUN: DATE OF SURVEY:

DEPARTMENT OF SERVICES AND PROPERTY NO 209 094

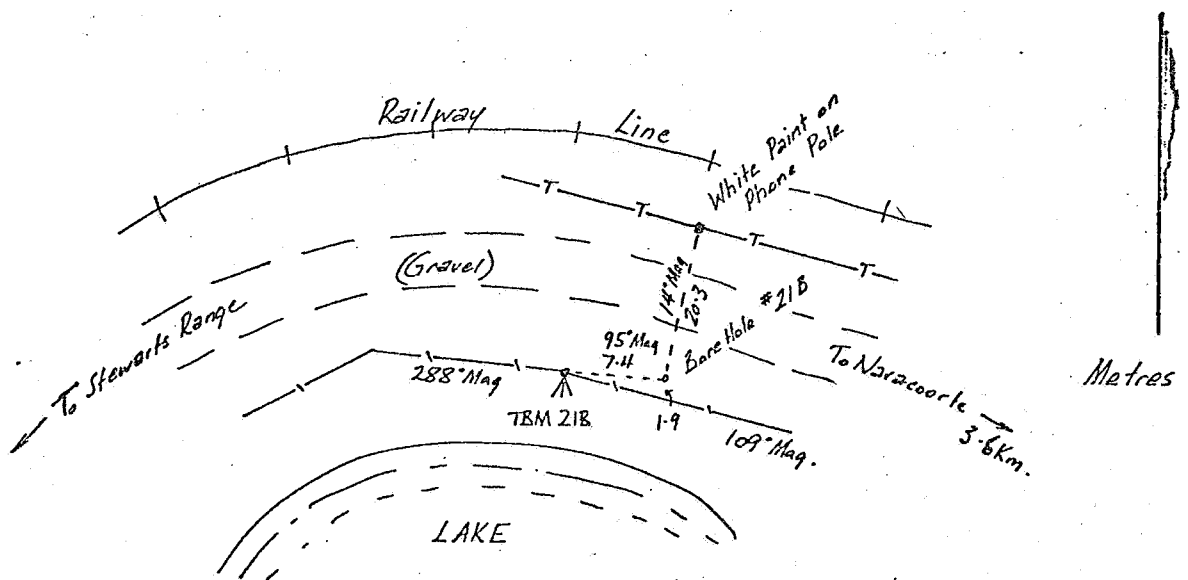
PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole #218



ACCESS DIAGRAM



TBM 218 GIN in top of R.P.
RL = 50.80 m AHD.

STATION DIAGRAM

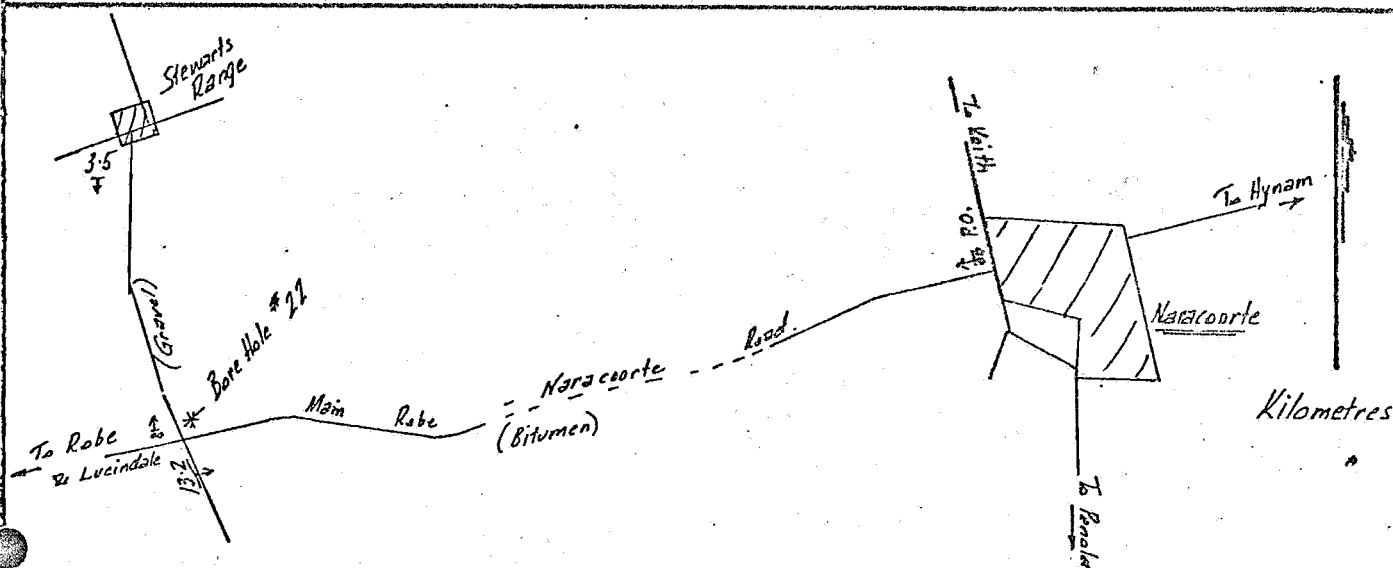
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #218	"	"	473500	5909330	49.7
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"

DATUM OF LEVELS: A.H.D. ORIGIN OF LEVELS: BM 1937 RL. 48.162
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13149 FOLIO 13 SURVEYED BY: J. H. H. H.
 FILM: PHOTO: RUN: DATE OF SURVEY: 7-6-75

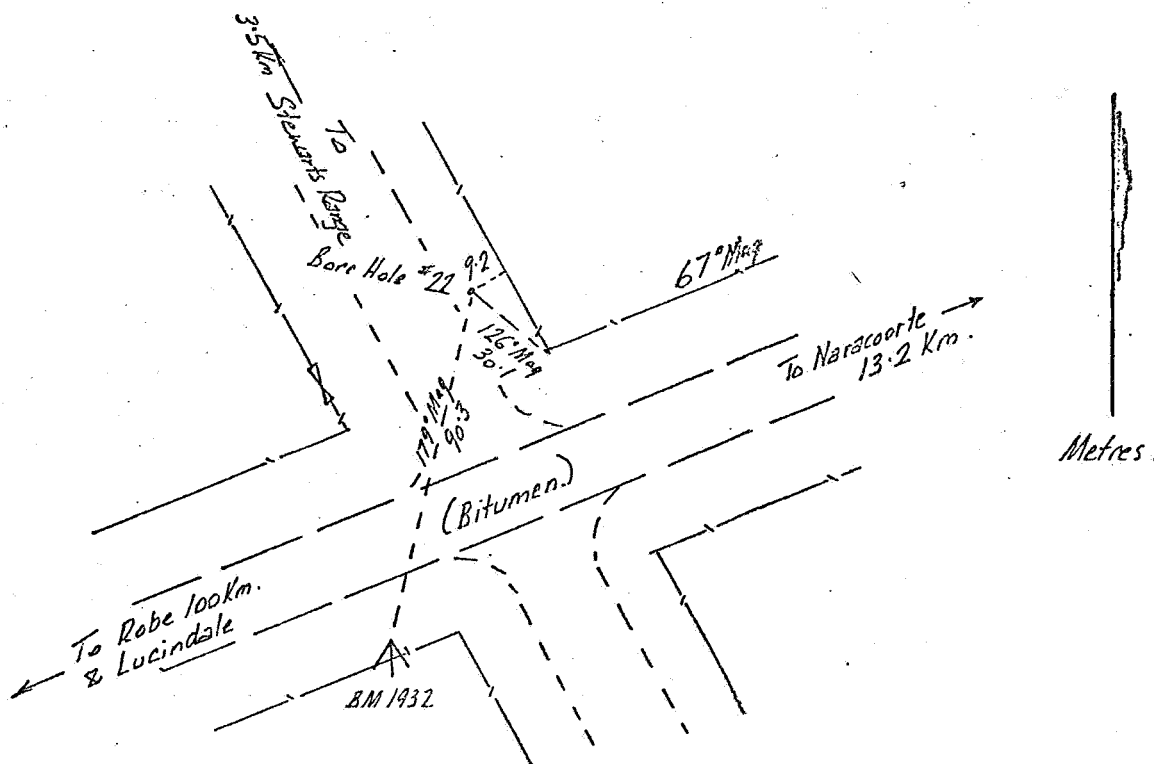
PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore Hole #22



ACCESS DIAGRAM



STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #22	° ' "	° ' "	464890	5905610	48.0
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

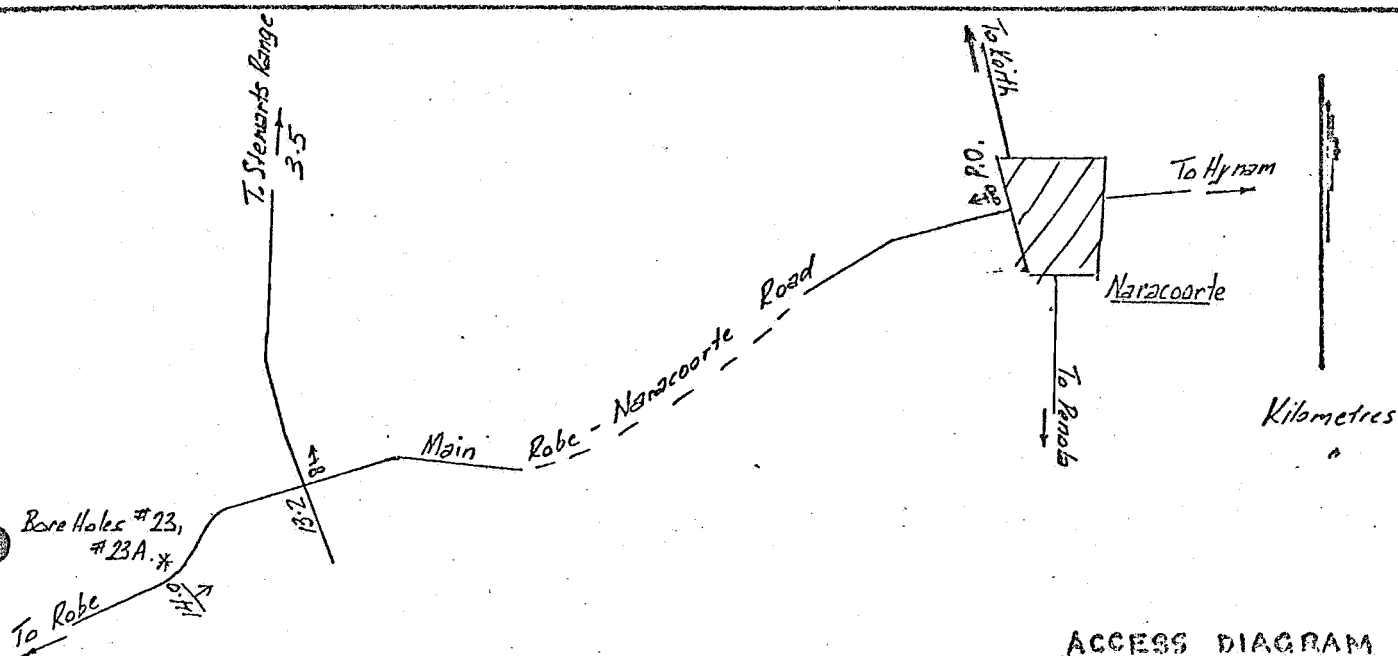
DATUM OF LEVELS: AHD... ORIGIN OF LEVELS: BM 1932 R.L. 47.192.
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13149 FOLIO 4... SURVEYED BY: *W. Miller*
 FILM: PHOTO: RUN: DATE OF SURVEY: 6-6-75

DEPARTMENT OF SERVICES AND PROPERTY

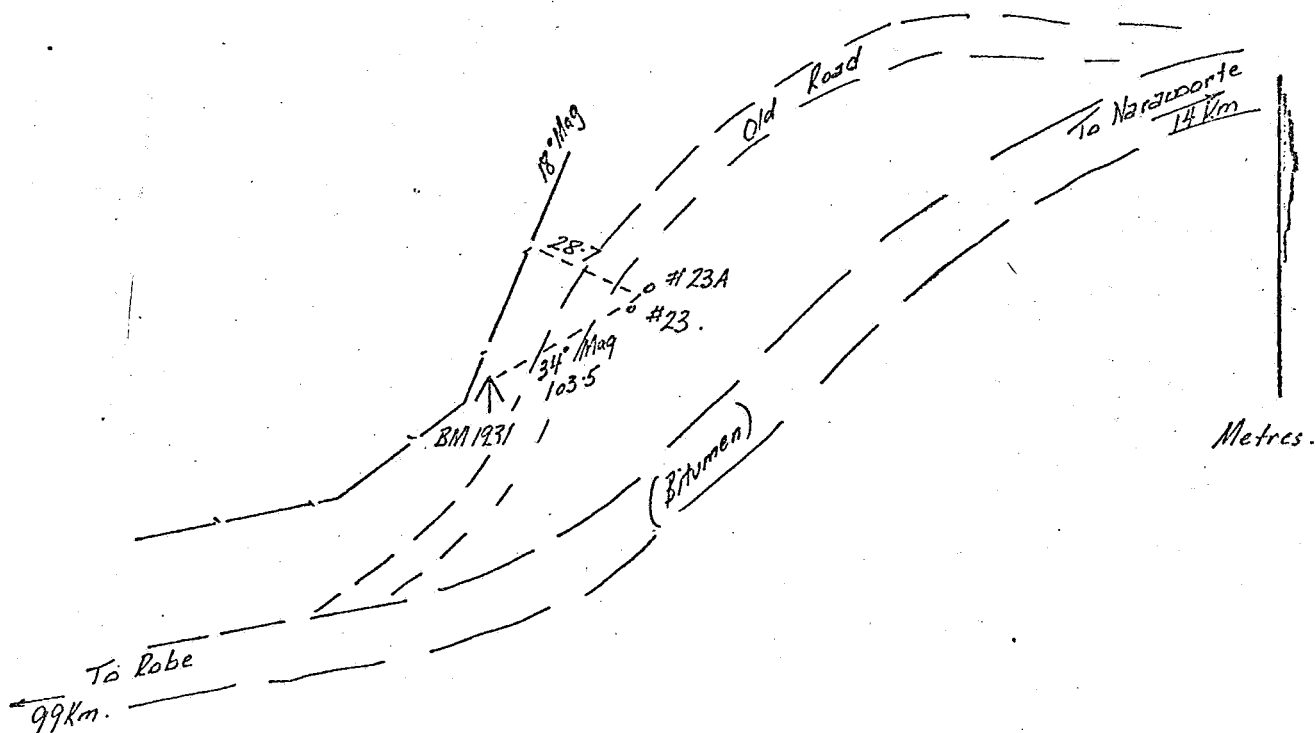
096

PROJECT ROBE - NARACORTE COASTAL SURVEY STN.

Bore Holes
#23, #23A



ACCESS DIAGRAM



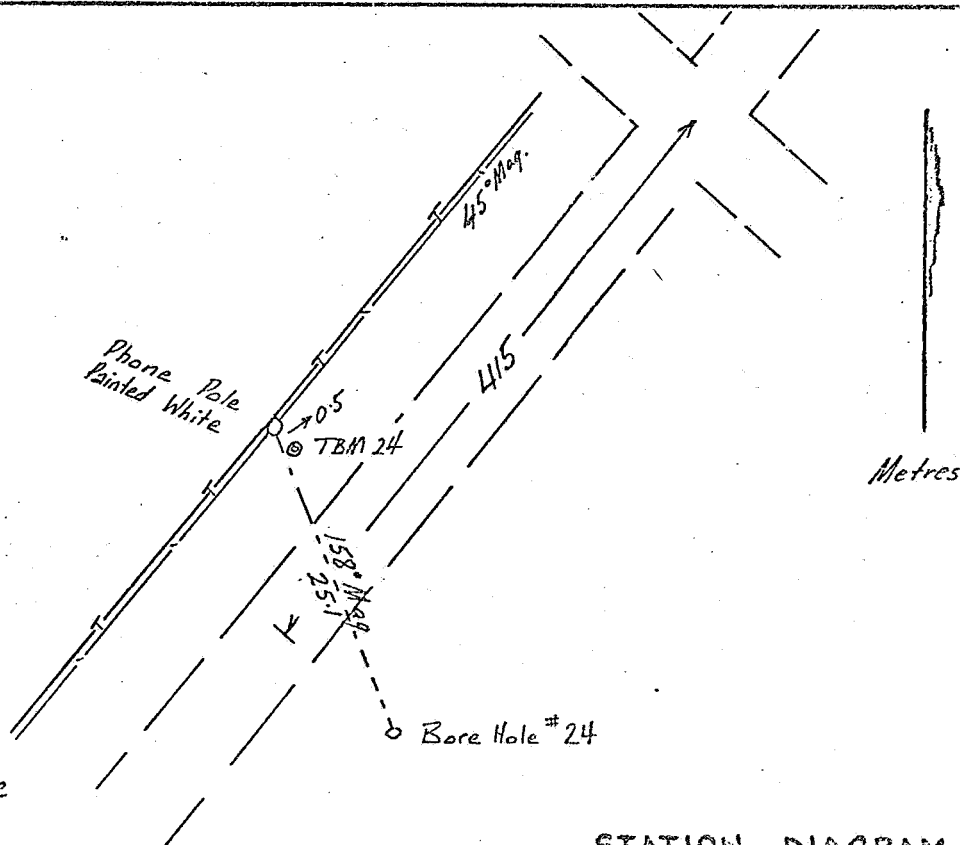
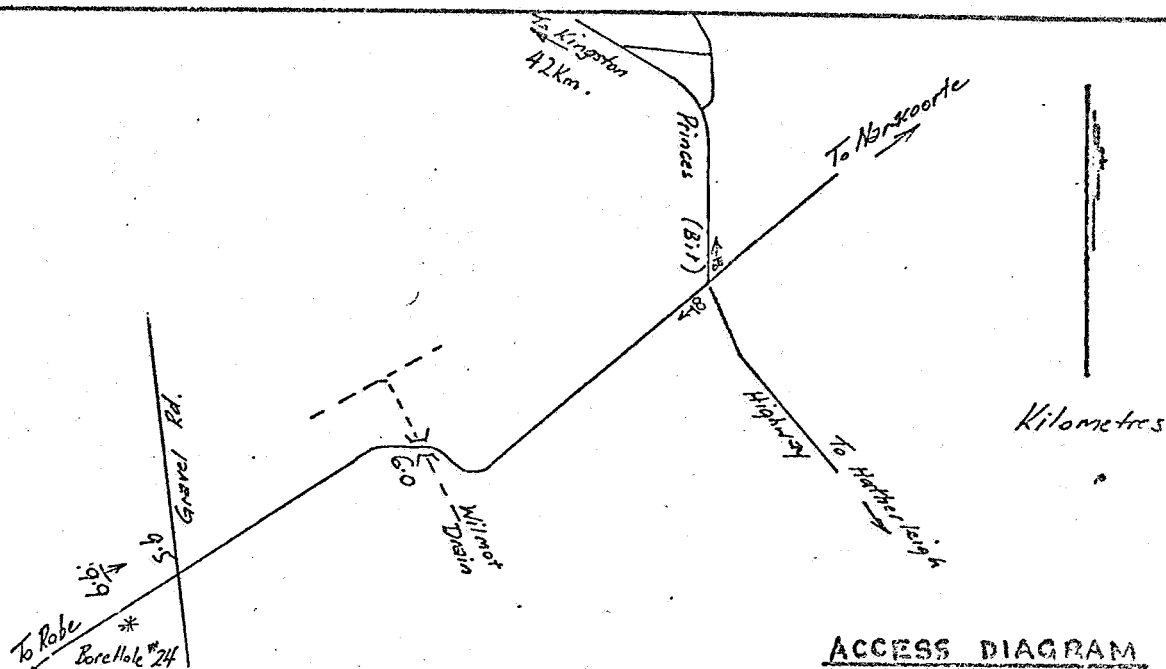
STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #23	"	"	464 100	5905230	43.4
Bore Hole #23A	"	"	464 100	5905230	43.2

DATUM OF LEVELS: AHD. (m) ORIGIN OF LEVELS: BM 1931 R.L. 43.474
 FIELD BOOK: VOL. FOLIO. GRID: AMG Zone 54
 LEVEL BOOK: VOL. PB349 FOLIO 4 SURVEYED BY: *M. J. ...*
 FILM: PHOTO: RUN: DATE OF SURVEY: 6. 6. 55

NO
NO LOG. 097

Bore Hole
24



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

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	PL.
Bore Hole #24	0 1 11	0 1 0	410 800	5883410	7.0
	0 1 11	0 1 0	.	.	.
	0 1 11	0 1 0	.	.	.
	0 1 11	0 1 0	.	.	.
	0 1 11	0 1 0	.	.	.
	0 1 11	0 1 0	.	.	.

DATUM OF LEVELS: *AHD. (m)* ORIGIN OF LEVELS: *BM 2325 RL. 8.35*

FIELD BOOK : VOL. FOLIO GRID AMG Zone 54.

LEVEL BOOK: VOL. P13147 FOLIO 12 SURVEYED BY: W. H. H. H.

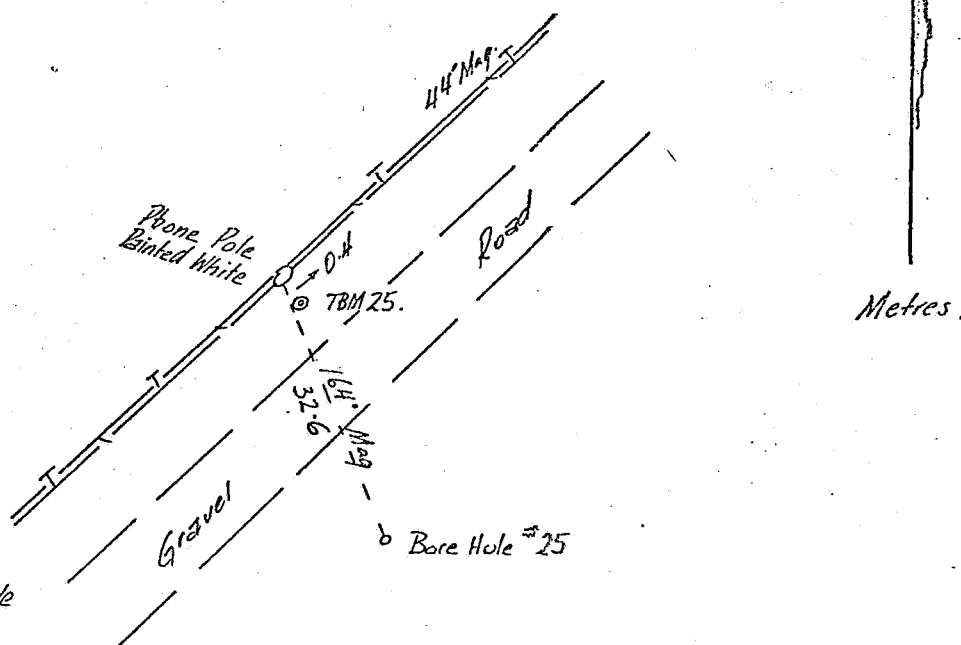
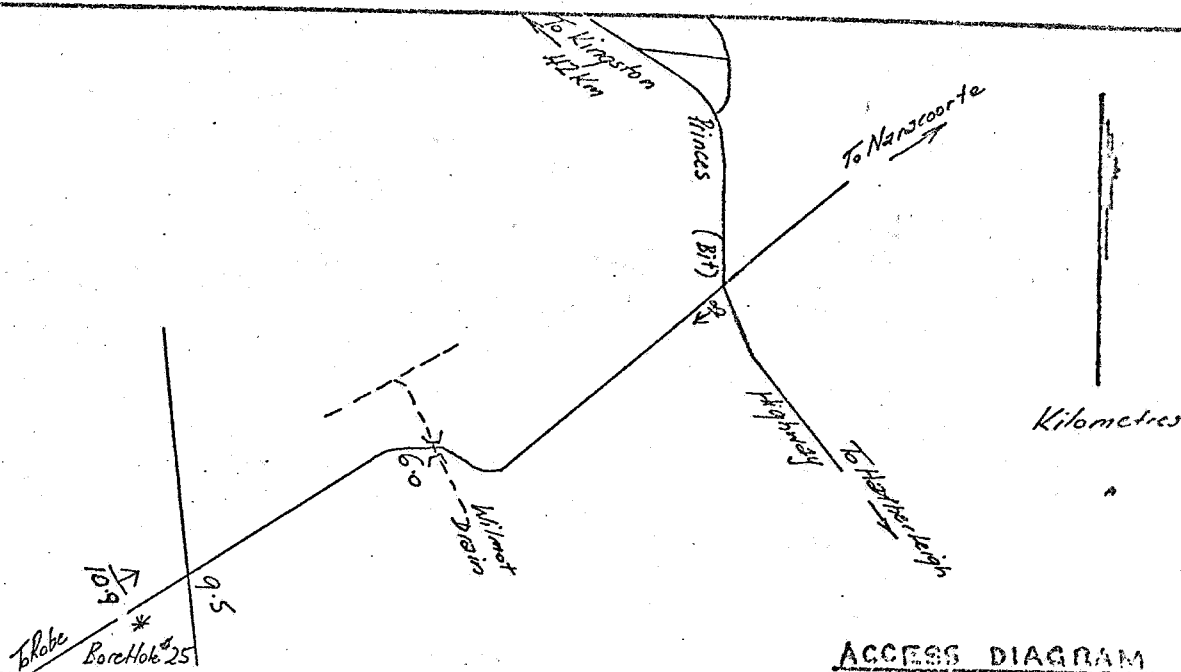
FILM: PHOTO: ROLL: DATE OF EXPOSURE:

DEPARTMENT OF SERVICES AND PROPERTY

098

PROJECT ROBE - NARACORTE COASTAL SURVEY

STN.

Bore Hole
#25

TBM 25. G.I. Post base phone pole
RL = 6.94 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #25	0	0	410080	5887890	6.9
	0	0			
	0	0			
	0	0			
	0	0			

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 2325 RL. 8.376.

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

LEVEL BOOK: VOL. P13147 FOLIO 12 SURVEYED BY: *W. J. J. J.*

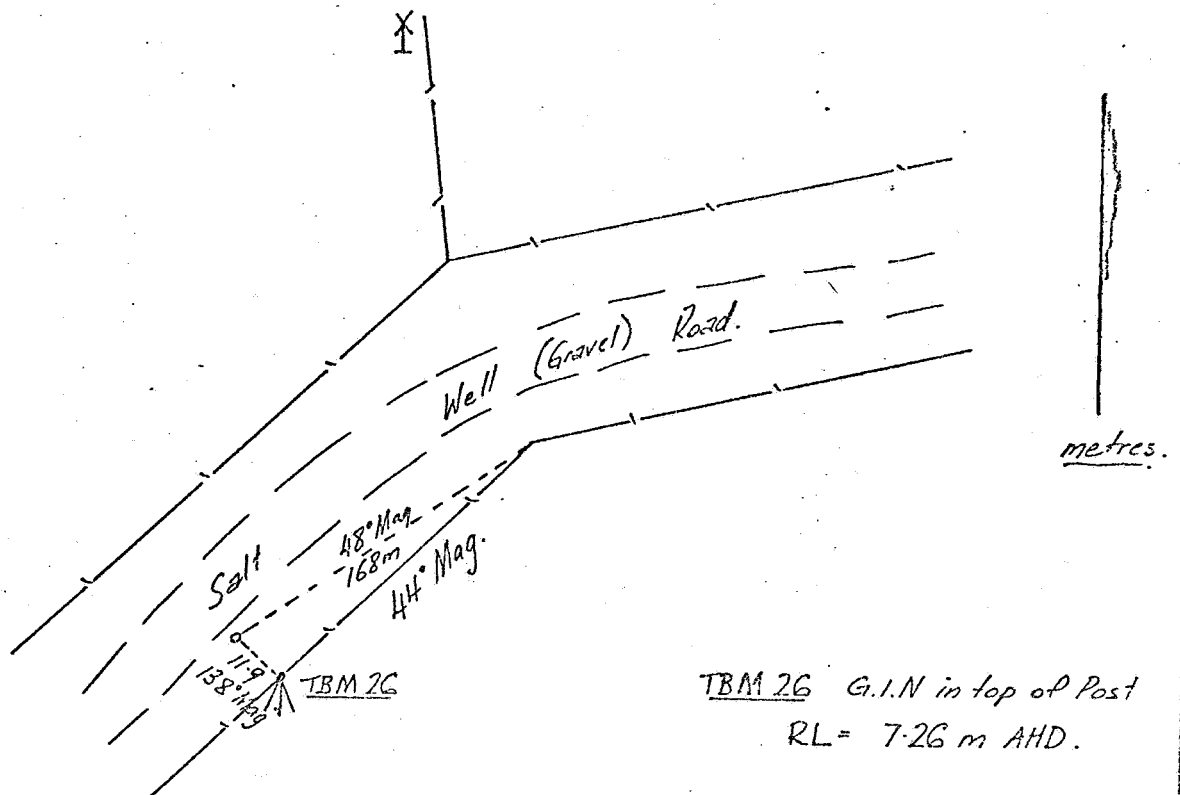
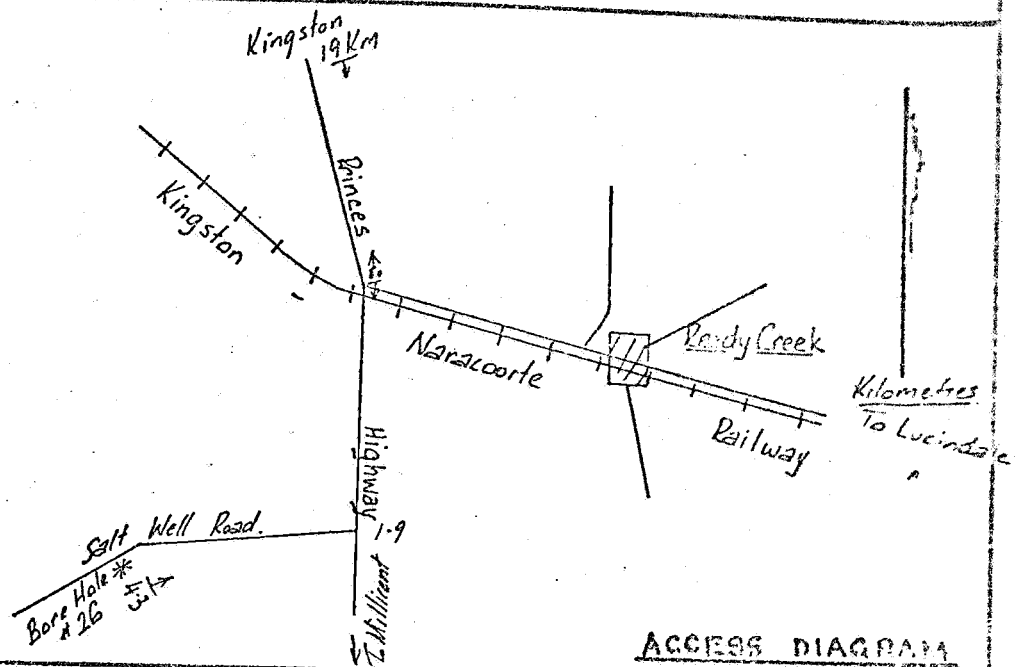
FILM: PHOTO: RUN: DATE OF SURVEY: 27-5-75

DEPARTMENT OF SERVICES AND PROPERTY ~~200~~ 099

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole #26



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #26	0 1 0	0 1 0	409 150	5910 820	6.1
	0 1 0	0 1 0	.	.	.
	0 1 0	0 1 0	.	.	.
	0 1 0	0 1 0	.	.	.
	0 1 0	0 1 0	.	.	.

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

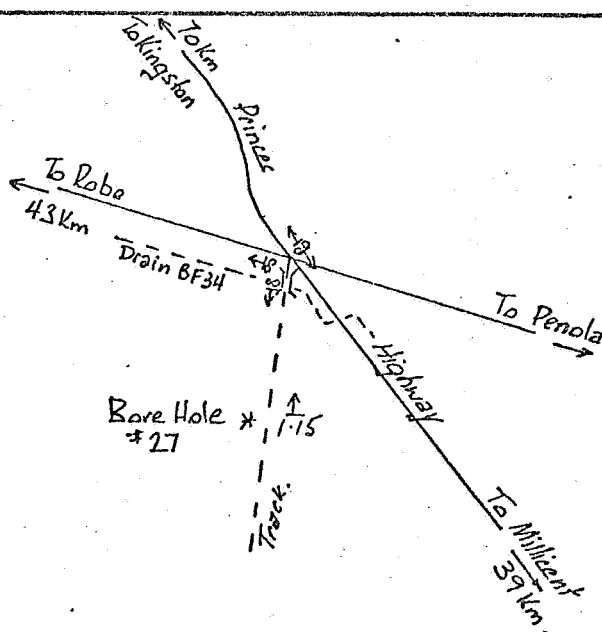
DEPARTMENT OF SERVICES AND PROPERTY

No 209.

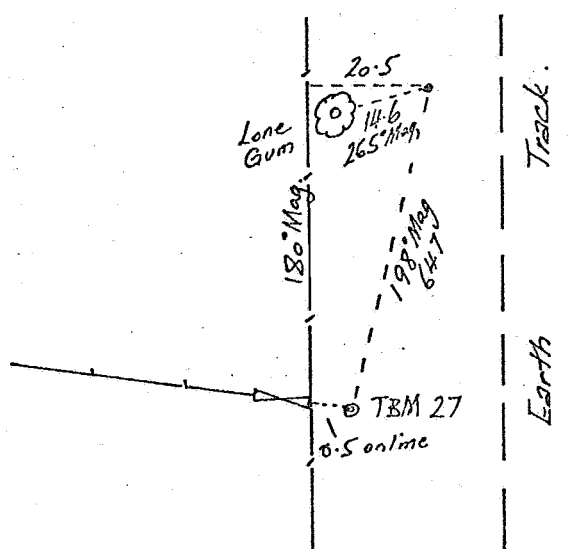
100

PROJECT ROBE - NARACOORTE COASTAL SURVEY.

STN.

Bore Hole
27

ACCESS DIAGRAM



TBM 27 G.I.P on line of Ferre
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 RL 12.683

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

LEVEL BOOK: VOL. P13147 FOLIO 20. SURVEYED BY: J. J. J.

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

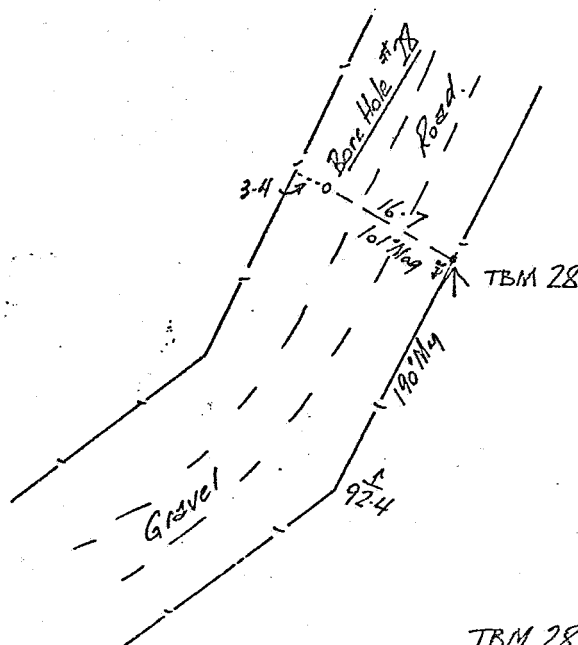
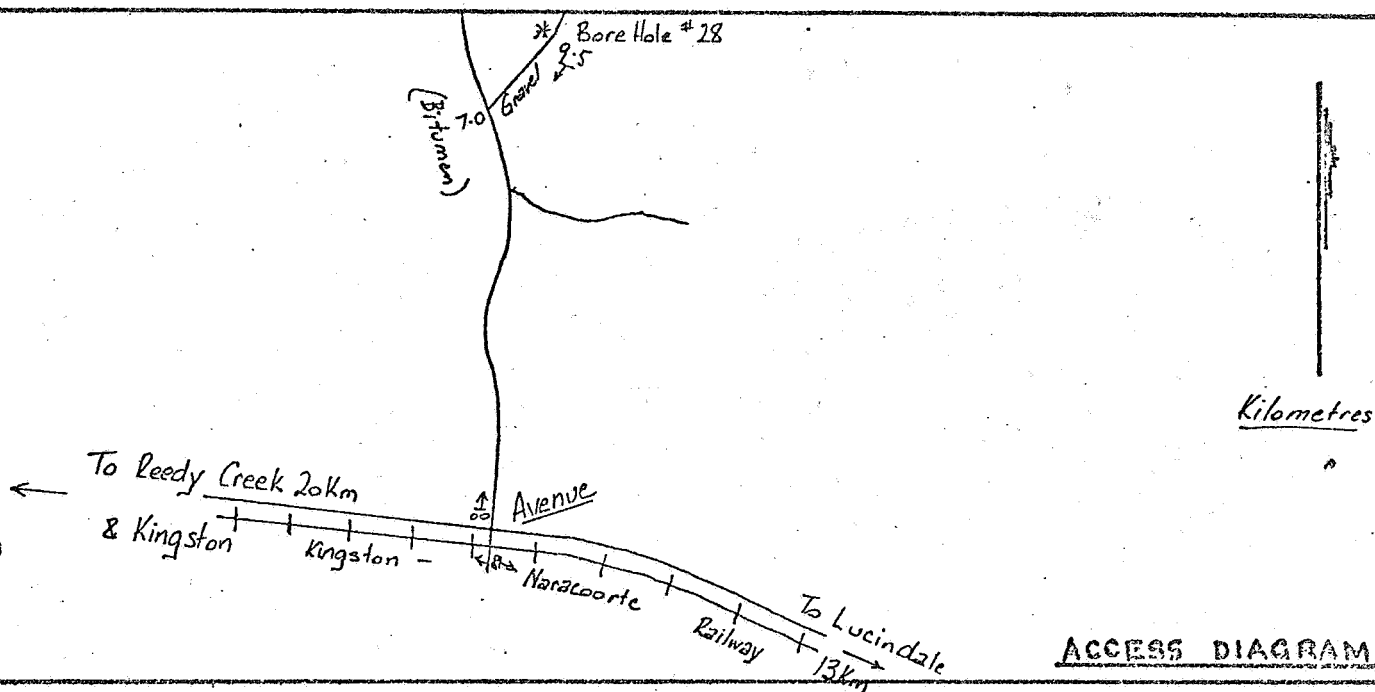
DEPARTMENT OF SERVICES AND PROPERTY

NO LOG.

101

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole
28

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

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #28	0 1 "	0 1 "	431 520.	5919 610.	33.9
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 190.9. RL. 22.616.
 FIELD BOOK: VOL. FOLIO GRID AMG Zone 54.
 LEVEL BOOK: VOL. P13148 FOLIO 8. SURVEYED BY: J. H. Ketter.
 FILM: PHOTO: RUN: DATE OF SURVEY: 29-5-75

DEPARTMENT OF SERVICES AND PROPERTY

BDR 6923 ~~120~~

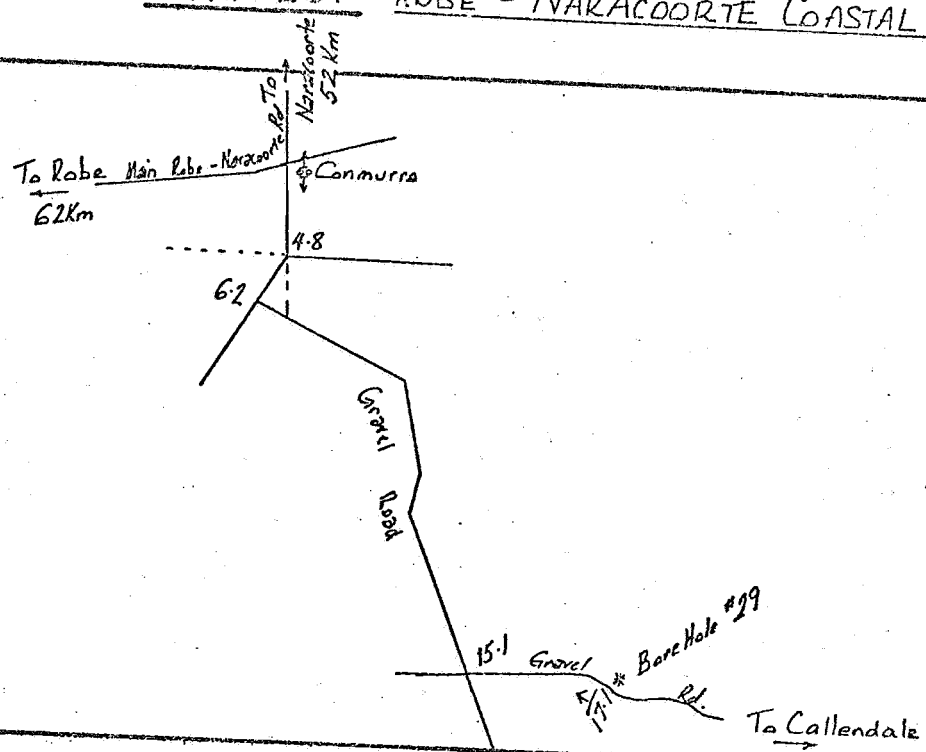
-1420

NO LOG.

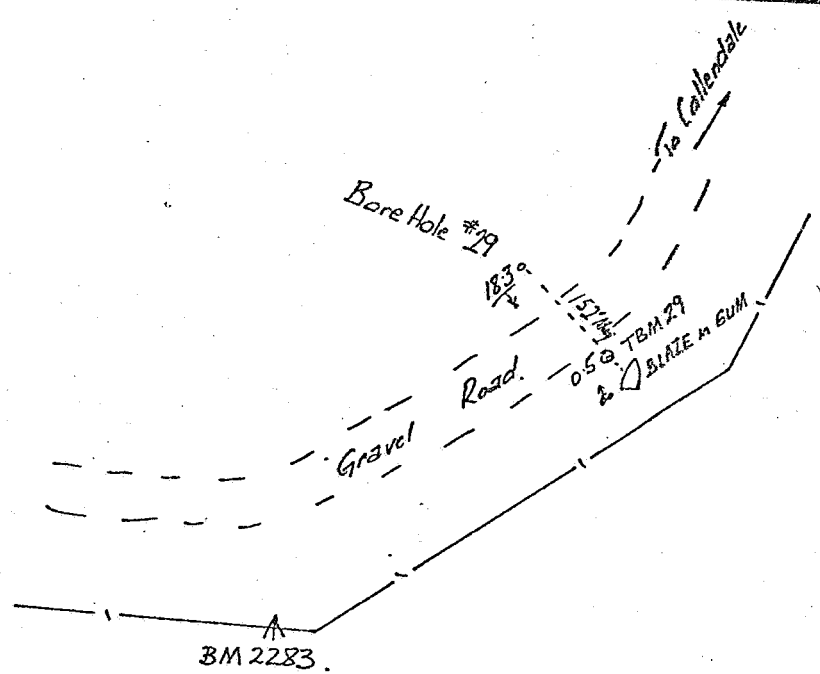
102

PROJECT ROBE - NARACORTE COASTAL SURVEY STN.

Bore Hole #29



Kilometres



Metres.

TBM 29 G.I.P. 0.5m from blazed tree
RL = 50.263. m AHD.

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #29	° ' "	° ' "	443 260	5877 120	49.4
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 2283 RL. 47.154
 FIELD BOOK: VOL. FOLIO GRID AME Zone 54.
 LEVEL BOOK: VOL. P13147 FOLIO 21 SURVEYED BY: *Walter*
 FILM: PHOTO: RUN: DATE OF SURVEY: 28 Nov 75

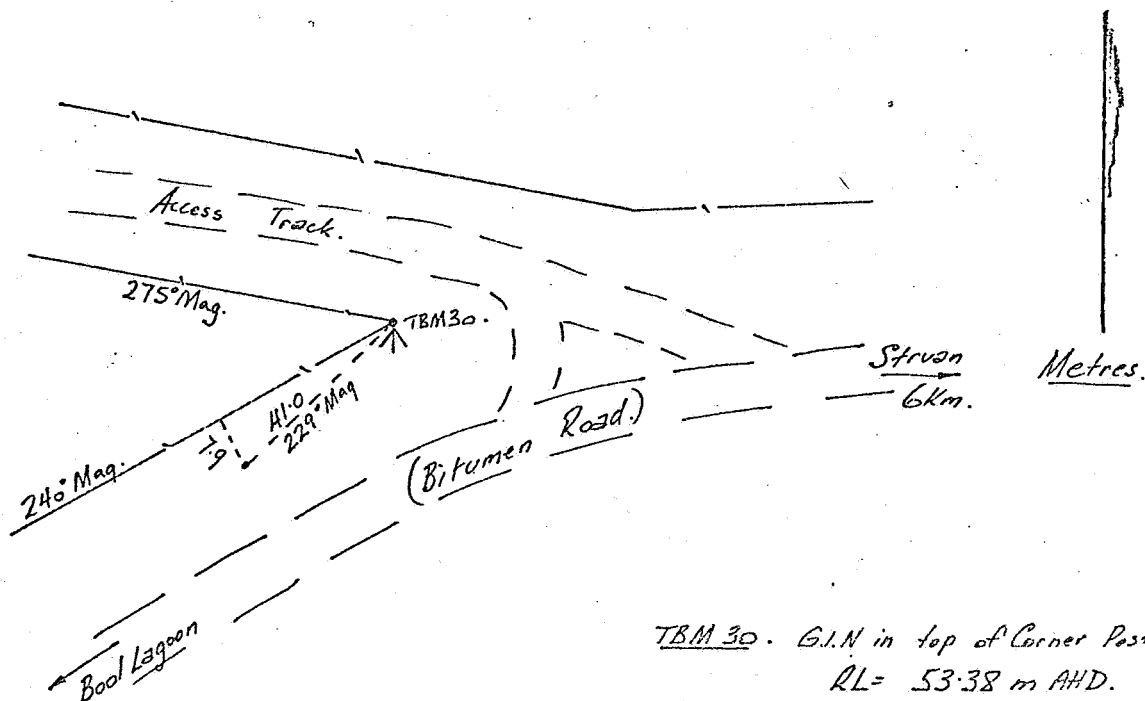
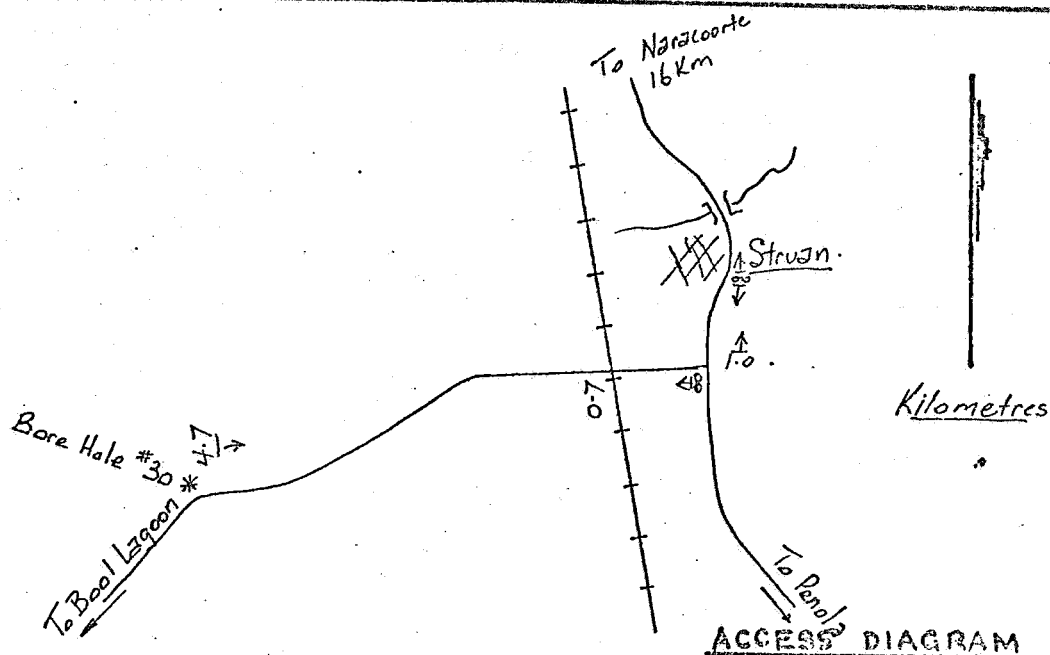
DEPARTMENT OF SERVICES AND PROPERTY

NO 103
NO LOG.

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole #30



TBM 30. G.I.N in top of Corner Post.
RL = 53.38 m AHD.

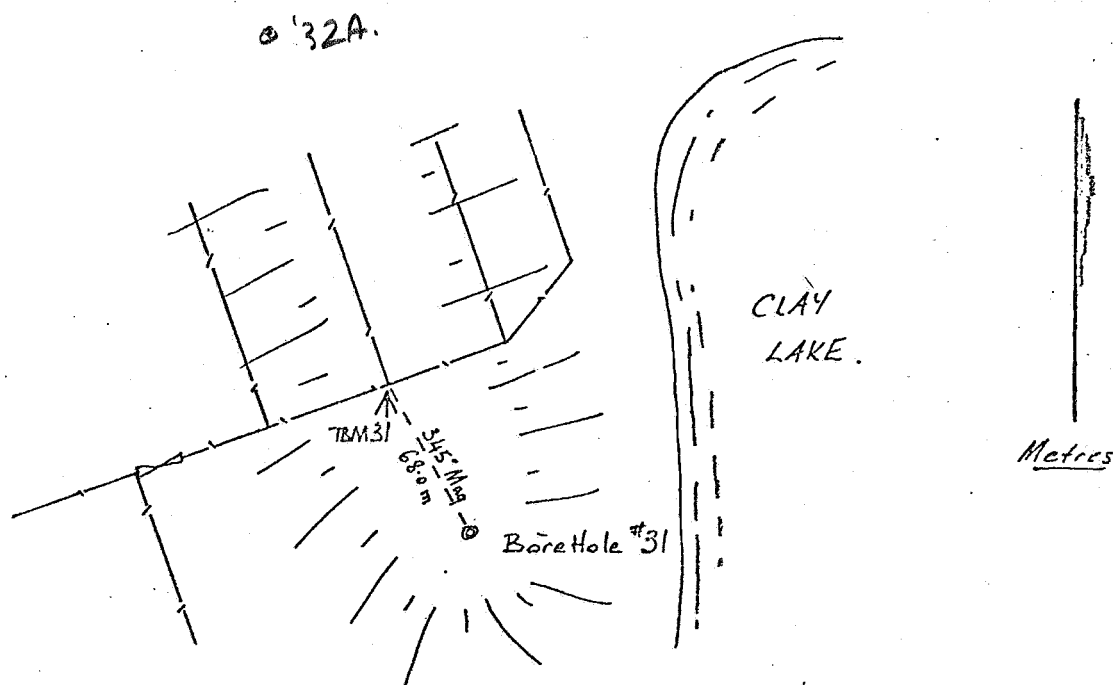
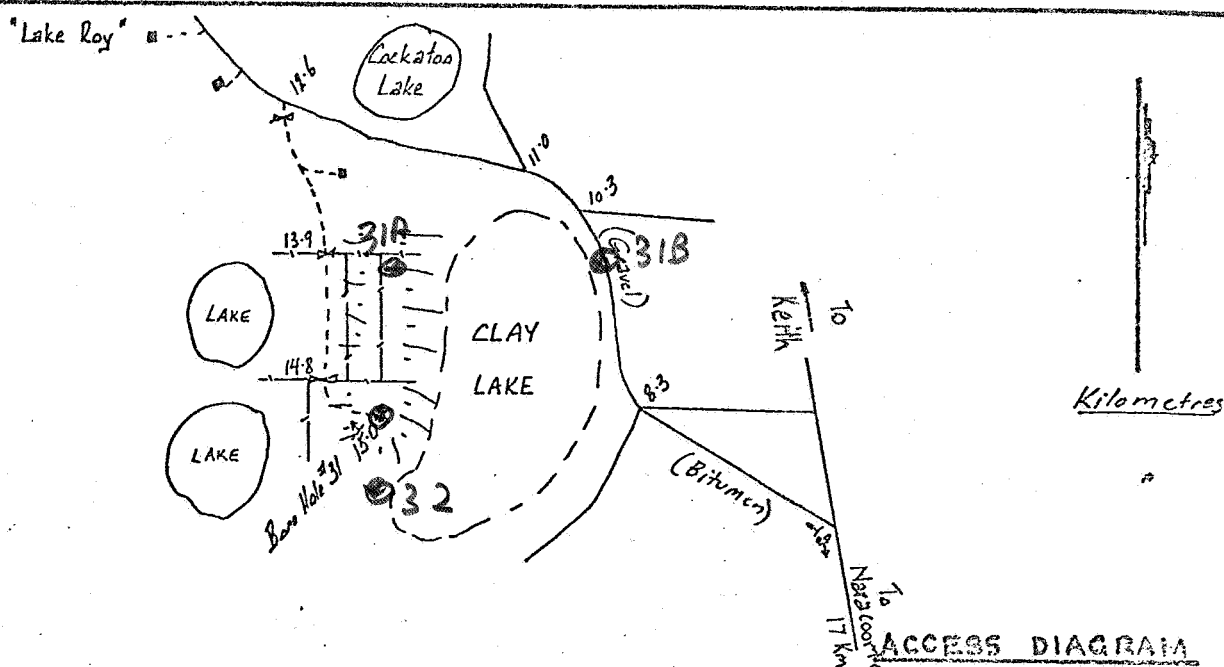
STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #30	° ' "	° ' "	477100	5891910	51.2
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			
	° ' "	° ' "			

DATUM OF LEVELS: AHD (m). ORIGIN OF LEVELS: BM 3M227 RL. 52.521
 FIELD BOOK: VOL K11359 FOLIO 17... GRID AMG Zone 54...
 LEVEL BOOK: VOL P13150 FOLIO 26... SURVEYED BY: M. Watters
 FILM: PHOTO: RUN: DATE OF SURVEY: 16 Nov 75

DEPARTMENT OF SERVICES AND PROPERTY No 109, 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	RL.
Bore Hole #31	0 1 "	0 1 "	461880.	5930290.	52.6
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.
	0 1 "	0 1 "	.	.	.

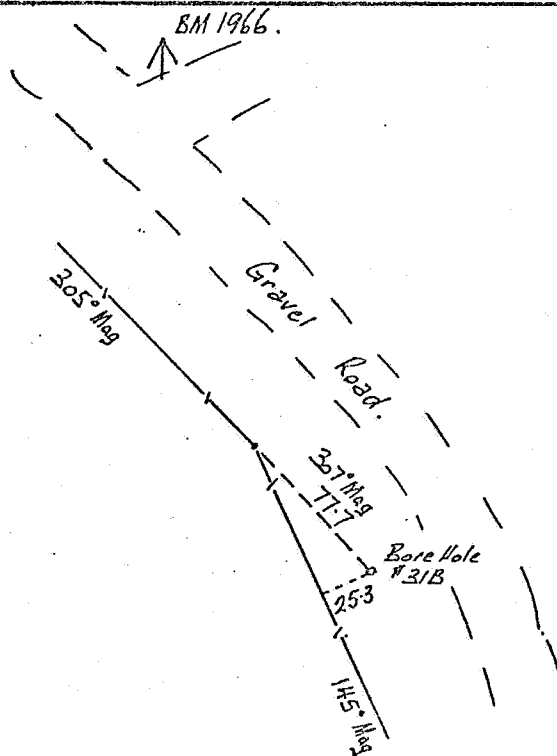
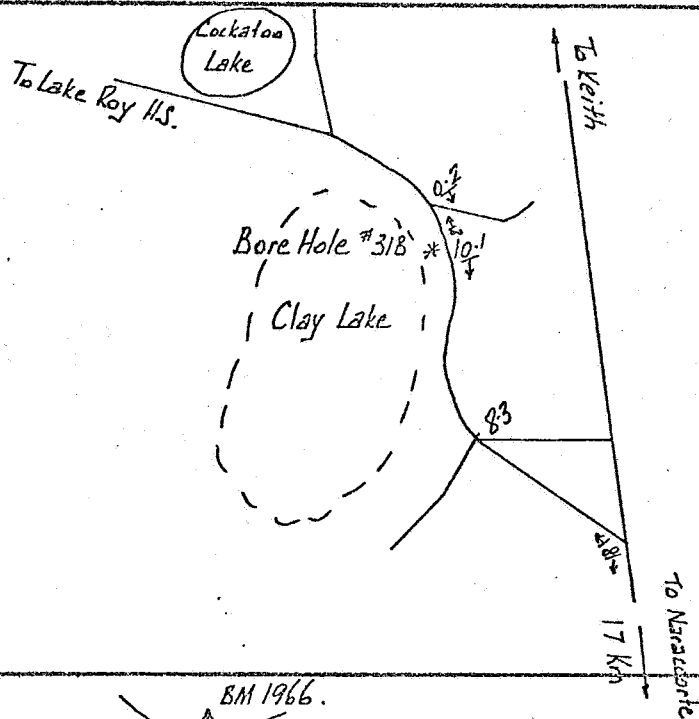
DATUM OF LEVELS: AHD(m) ORIGIN OF LEVELS: 8M 1966 RL... 42.747.
 FIELD BOOK: VOL. K.11359 FOLIO 2... GRID: AMG Zone 54
 LEVEL BOOK: VOL. P.13148 FOLIO 17... SURVEYED BY: K. Keller
 FILM: PHOTO: RUN: DATE OF SURVEY: 3-6-75

DEPARTMENT OF SERVICES AND PROPERTY NO 409

106

PROJECT ROBE - NARACORTE COASTAL SURVEY STN.

Bore Hole #318



STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	R.L.
Bore Hole #318	° ' "	° ' "	463400.	5931090.	41.9
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

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: *W. H. H. H.*
 FILM: PHOTO: RUN: DATE OF SURVEY: 3-6-75

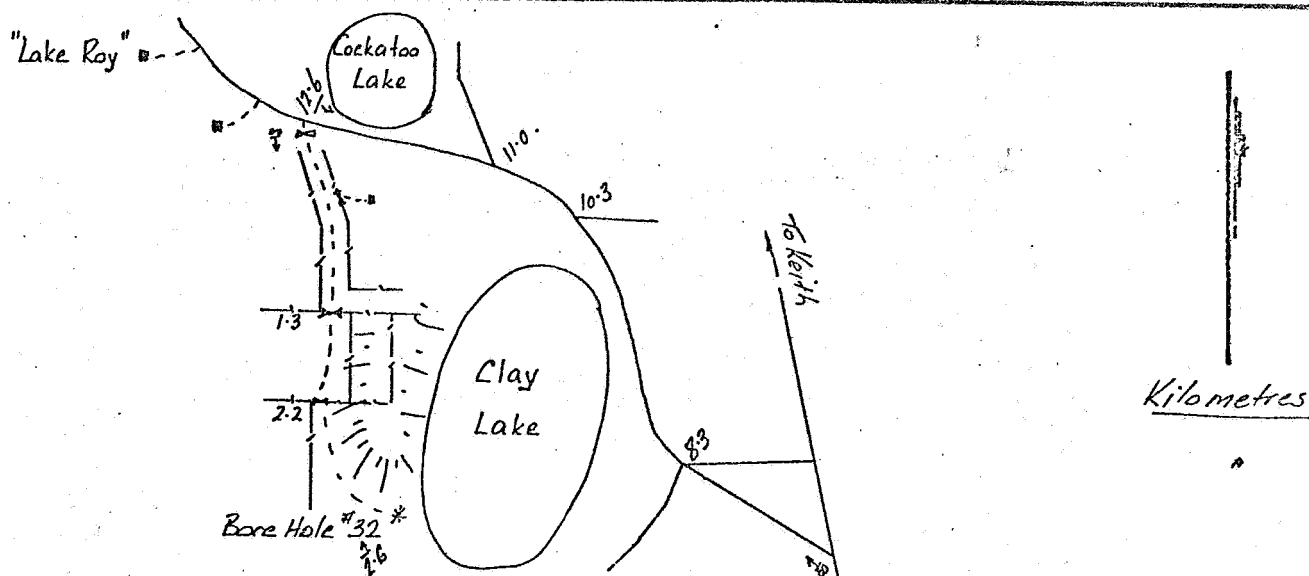
DEPARTMENT OF SERVICES AND PROPERTY

NO
NO LOG. 107

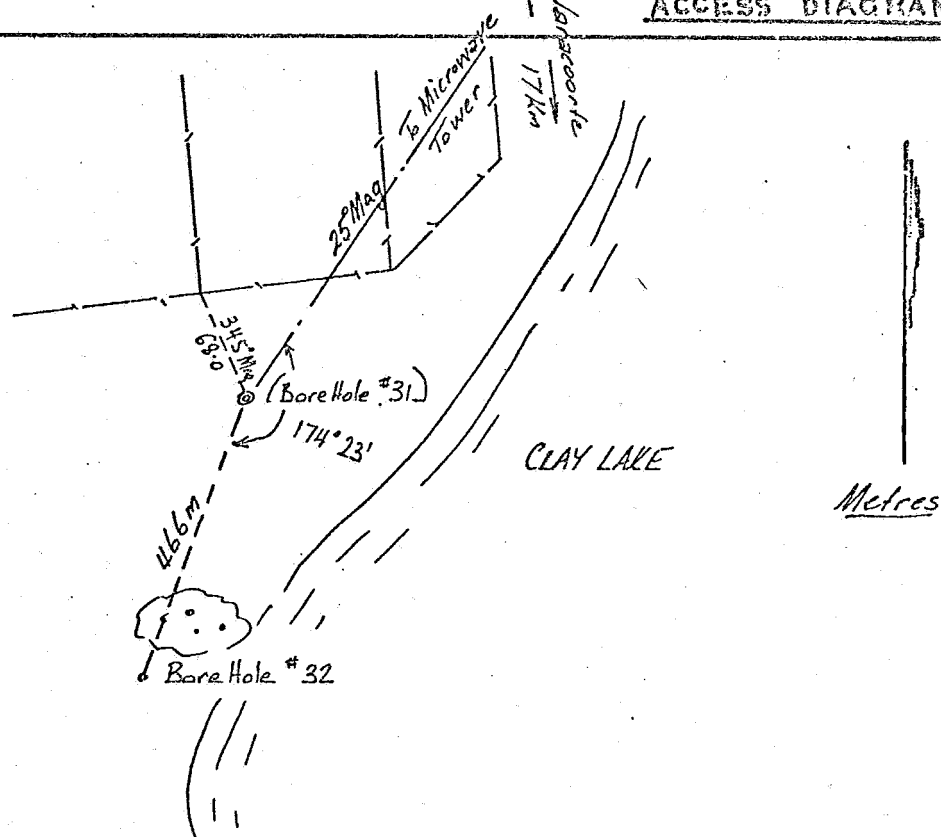
PROJECT ROBE - NARACORTE COASTAL SURVEY

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: VOLK 11359 FOLIO 2... GRID: AMG Zone 54...
 LEVEL BOOK: VOLP 13148 FOLIO 17... SURVEYED BY: *Shelley*

DEPARTMENT OF SERVICES AND PROPERTY

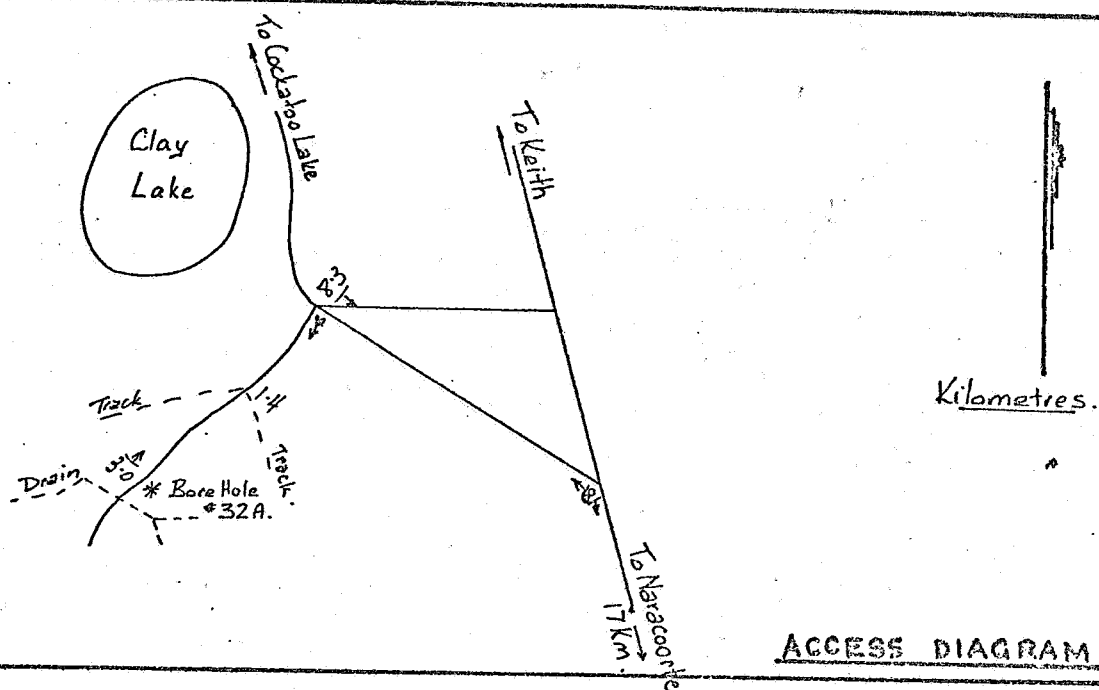
NO
NO LOG.

108

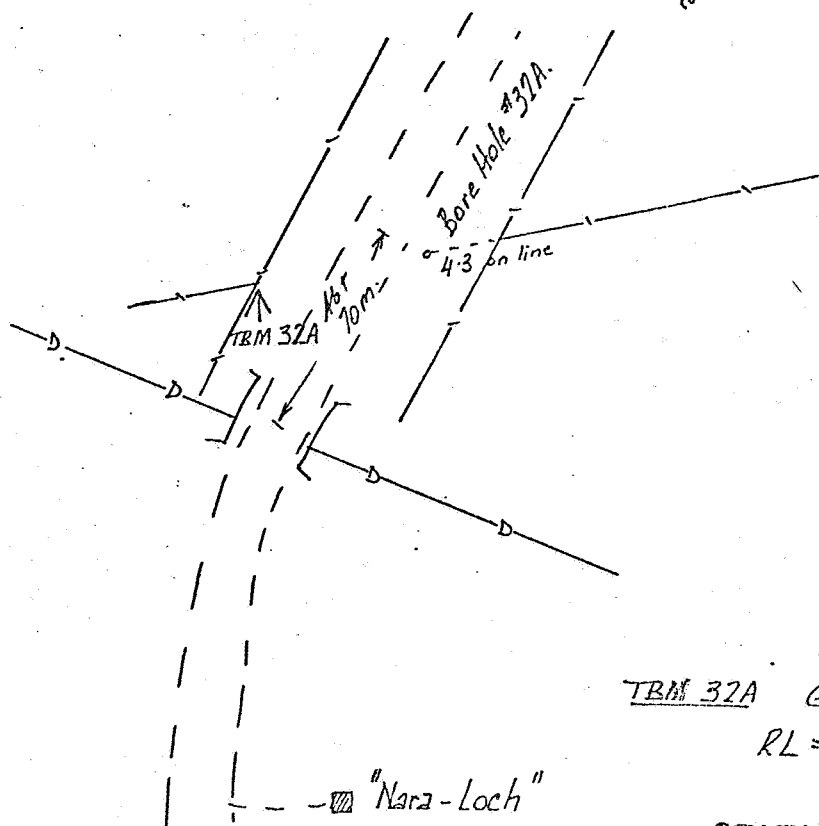
PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole
#32A



ACCESS DIAGRAM



TBM 32A G.I.N in top of post
RL = 42.19 m AHD

"Nara-Loch"

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #32A	° ' "	° ' "	461 900	5926 940	40.8
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.
	° ' "	° ' "	.	.	.

DATUM OF LEVELS: AHD (m) ORIGIN OF LEVELS: BM 1969 RL. 41.787
FIELD BOOK: VOL. FOLIO GRID AM6 Zone 54
LEVEL BOOK: VOL. P13150 FOLIO 8 SURVEYED BY: J. Miller
FILM: PHOTO: RUN: DATE OF SURVEY: 13-6-75

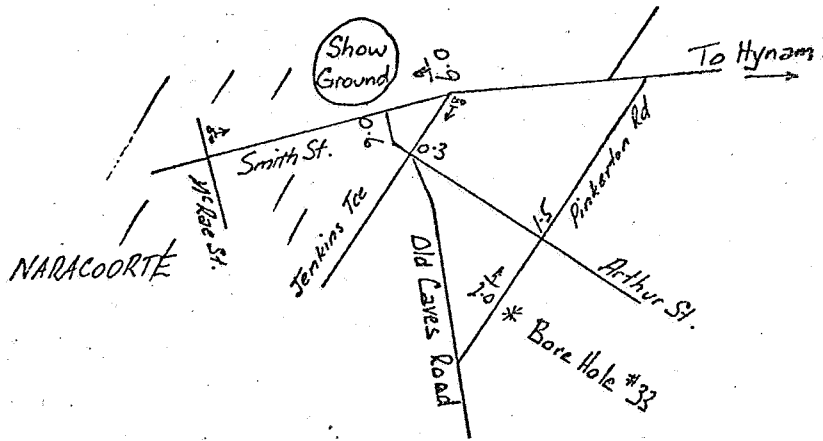
DEPARTMENT OF SERVICES AND PROPERTY

109

PROJECT ROBE - NARACOORTE COASTAL SURVEY

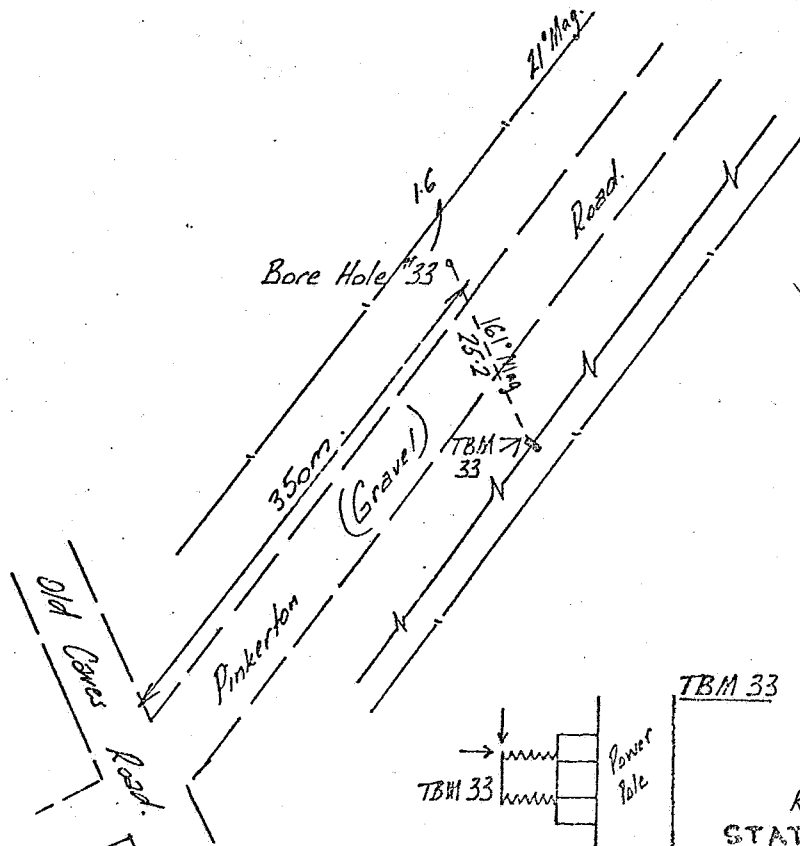
STN.

Bore Hole #33



Kilometres

ACCESS DIAGRAM



Metres

TBM 33 End of bottom bolt on power pole. See sketch.

RL = 63.22 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #33	" "	" "	478 290	5908680	63.0
	" "	" "	"	"	"
	" "	" "	"	"	"
	" "	" "	"	"	"

DATUM OF LEVELS: AHD.(m). ORIGIN OF LEVELS: B.M. 1940 RL. 66.856

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

LEVEL BOOK: VOL. PB1118,9 FOLIO. SURVEYED BY: A. Walter

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

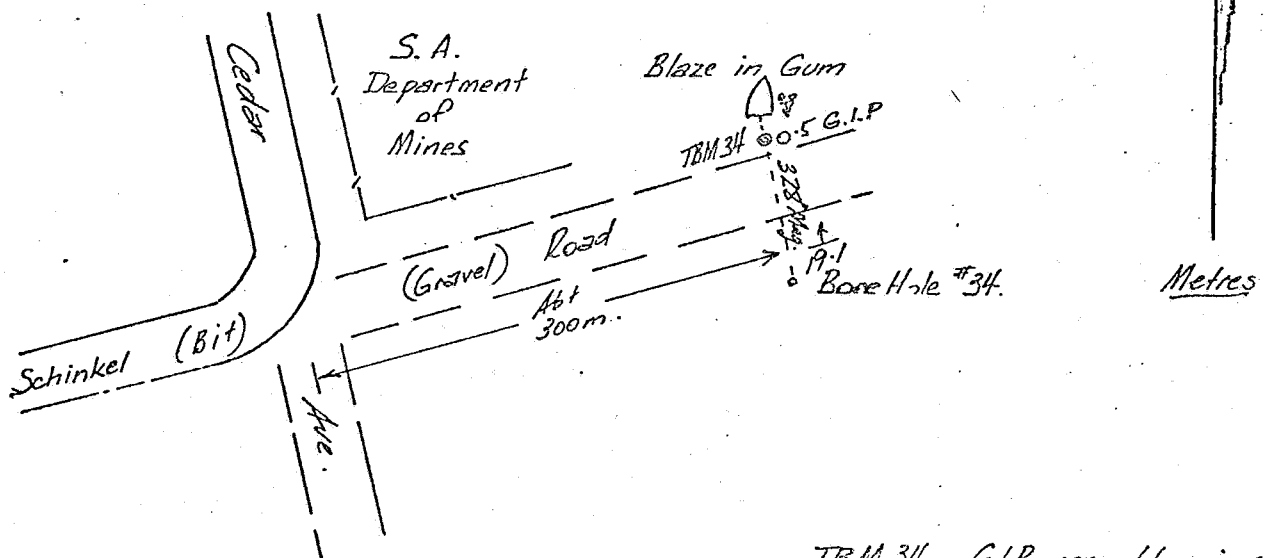
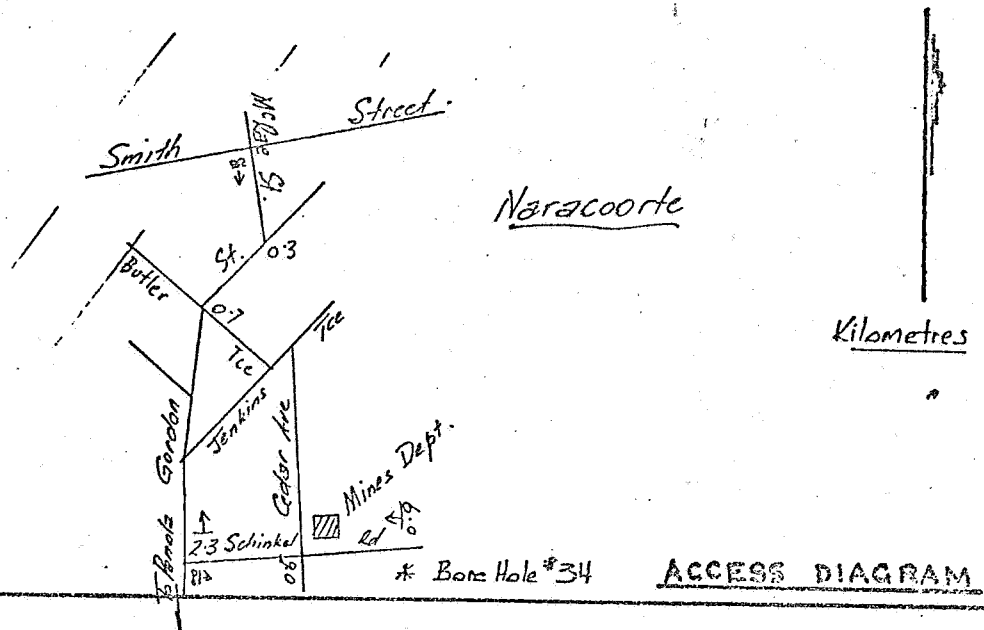
7024 1561

DEPARTMENT OF SERVICES AND PROPERTY

110

PROJECT ROBE - NARACOORTE COASTAL SURVEY

STN.

Bore Hole
#34

TBM 34. G.I.P. near blaze in gum

RL = 89.89 m AHD.

STATION DIAGRAM

STATION	LATITUDE	LONGITUDE	EASTING	NORTHING	RL.
Bore Hole #34	" "	" "	477 590	5907 590	89.6
	" "	" "	"	"	"
	" "	" "	"	"	"
	" "	" "	"	"	"
	" "	" "	"	"	"

DATUM OF LEVELS: AHD(m) ORIGIN OF LEVELS: BM 1940 RL... 66.85

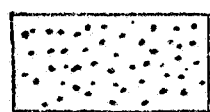
FIELD BOOK: VOL. FOLIO GRID AMG Zone 54

LEVEL BOOK: VOL. P.13/48,9 FOLIO SURVEYED BY: ...

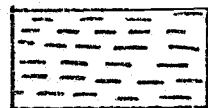
FILM: ... PHOTO: ... RUN: ... DATE OF SURVEY: 9-6-75

Duplicate

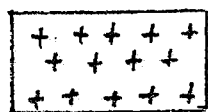
KEY



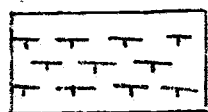
Quartzose sand/sandstone



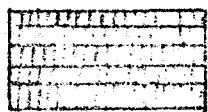
clay/claystone



calcarenite



calcilutite



calcrete



soil



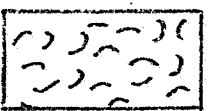
chert



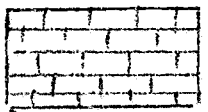
Quartz granules + pebbles



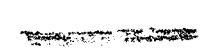
calcrete pebbles



shell grit



Gambier Limestone



Ferruginized surface

⊙ Fossils

⊕ Fossil fragments

◻ Rhombs

Λ Root fragments, Plant fibres

X Cross bedding, low angle

≡ wavy lamination

• Heavy minerals, opaque grains

Fe Iron staining

Mn Manganese staining

P Pyrite

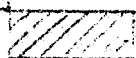
Gl Glauconite

- mica

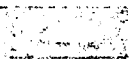
SEDIMENT COMPONENTS



Framework

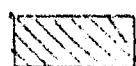


Matrix



Cement

FRAMEWORK COMPOSITION

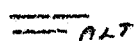


Carbonates



Quartz

INDURATION



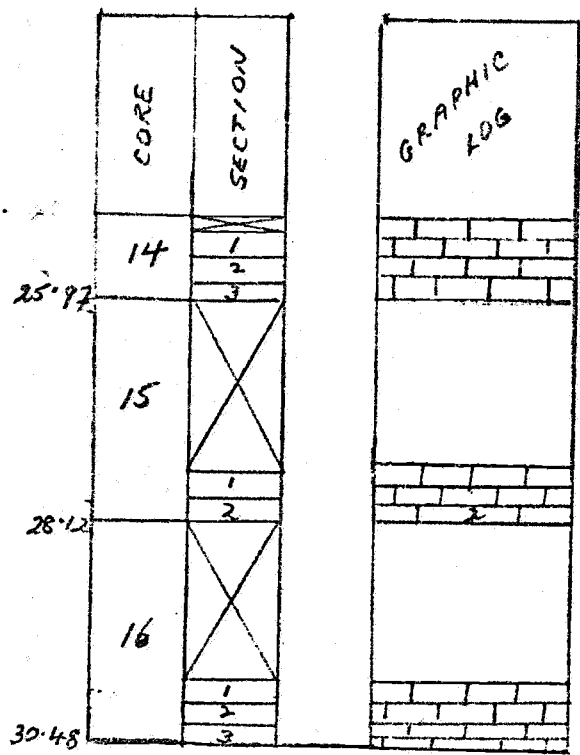
ALT Alternating indurated + non-indurated bands

PENOLA NO 2

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE				SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS				FRAMEWORK COMPOSITION				INDU	
				3 2 1 0 f f m c vc				POOR	MODER	WELL	ROUND	S-R	S-A	ANGULAR	%				%				POOR	MODER
															20	40	60	80	20	40	60	80		
0.76	C1		5YR3/2																					
1.52	C2		10YR7/4																					
2.28	C3		10YR7/4																					
3.05	C4		10YR7/4																					
3.81	C5		10YR7/4																					
4.42	C6		10YR7/4																					
7.62	1		10YR7/4																					
7.97	2		10YR7/4																					
10.67	3		10YR8/2																					
12.42	4		10YR7/4																					
13.26	5		10YR7/4																					
14.69	6		10YR7/4																					
17.04	7		10YR7/4																					
17.65	8		10YR7/4																					
19.32	9		N9																					
19.93	10		10YR8/6																					
20.72	11		10YR8/2																					
21.46	12		10YR8/6																					
24.30	13		N8																					
	14		N8																					

GAMBIER LST

PENOLA NO. 2 (CONT.)



PENOLA 3

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE			SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS				FRAMEWORK COMPOSITION			
				φ			POOR MODER WELL			ROUND	S-R	S-A	ANGULAR	20	40	60	80	20	40	60	80
				3	2	1	0	f	m	c	vc										
1-20	1	1	SYR4/1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	2	SYR8/1																		
	3	3	N7																		
	4	4	N6																		
1-83	2	1	N7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
2-28	3	2	N6																		
2-89	4	1	N6																		
3-50	5	2	N6																		
4-11	6	1	N6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
4-72	7	2	N6																		
5-18	8	1	N6																		
5-79	9	2	N6																		
6-40	10	1	N6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
6-84	11	2	N6																		
7-45	12	1	SGY5/2																		
8-06	13	2	10YR8/2																		
8-56	14	1	10Y6/2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9-17	15	2	SY6/2																		
9-63	16	1	SY6/2																		
	17	2	N8																		
12-21	18	1	SYR8/1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13-11	19	2	N9																		
13-90	20	1	N9																		
15-93	21	2	N9																		
16-99	22	1	N9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17-52	23	2	N9																		
	24	1	N9																		
19-05	25	2	N9																		

GAMBIER LST

PENOLA 4

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR. ATION
				3 2 1 0 v f m c vl		ROUND S-A			
0							20 40 60 80	20 40 60 80	
0.76	C1	+	10YR 8/2						
	C2	+	10YR 8/2						
1.52	C3	+	10YR 8/2						
2.28	C4	+	10YR 8/2						
3.05	C5	+	10YR 8/2						
3.81	C6	+	10YR 8/2						
4.57	C7	+	10YR 8/2						
5.33	C8	+	10YR 8/2						
6.10	C9	+	10YR 8/2						
6.86	C10	+	10YR 8/2						
7.62	C11	+	10YR 8/2						
8.38	C12	+	10YR 8/2						
9.04									
	1	+	10YR 8/2						
10.41	2	+	10YR 7/4						
	3	+	10YR 7/4						
12.39	4	+	10YR 7/4						
	5	+	10YR 8/2						
15.07	6	+	10YR 8/2						
	7	+	10YR 8/2						
16.89	8	+	10YR 8/2						
	9	+	10YR 8/2						
19.71	10	+	10YR 8/2						
20.08									
	1	+	10YR 8/2						
21.39	2	+	10YR 8/2						
21.84	3	+	10YR 8/2						
	4	+	10YR 8/2						
	5	+	10YR 8/2						
	6	+	10YR 8/2						
	7	+	10YR 8/2						
	8	+	10YR 8/2						
24.79	9	+	10YR 8/2						

PENOLA 4 (CONT)

	CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK IND. COMPOSITION %	FRAMEWORK IND. COMPOSITION %
						3 2 1 0 v f m c vl					
							POOR MODER. WELL	ROUND S-R S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER. WELL
25	10	2	+ + + + +	⊙	10YR 7/1						
25.63		3	+ + + + +	⊙	10YR 8/4						
	11	1	+ + + + +	⊙	N 9						
		2	+ + + + +	⊙	10YR 8/6						
		3	+ + + + +	⊙	N 9						
		4	+ + + + +	⊙	10YR 7/4						
27.77		5	+ + + + +	⊙	10YR 7/4						
	12	1	+ + + + +	⊙	10YR 7/4						
		2	+ + + + +	⊙	10YR 8/2						
		3	+ + + + +	⊙	N 8						
29.11	13	1	+ + + + +	⊙	10YR 7/4						
		2	+ + + + +	⊙	N 8						
30.33	14	1	+ + + + +	⊙	N 8						
		2	+ + + + +	⊙	5YR 8/1						
31.93		3	+ + + + +	⊙	N 8						
	15	1	+ + + + +	⊙	N 8						
		2	+ + + + +	⊙	N 8						
		3	+ + + + +	⊙	N 8						
		4	+ + + + +	⊙	N 8						
		5	+ + + + +	⊙	N 8						
33.98		6	+ + + + +	⊙	N 8						
	16	1	+ + + + +	⊙	N 8						
		2	+ + + + +	⊙	N 8						
37.34		3	+ + + + +	⊙	N 8						

GAMBIER LST

PENOLA No 7

	CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS				FRAMEWORK COMPOSITION				INDICATIVE		
						3 2 1 0 mm f m c vc	POOR	MODER	WELL	ROUND	S-R	S-A	ANGULAR	20	40	60	80	20	40	60	80	POOR	MODER	WELL
0																								
0.46	1	1		↑	5Y8/1																			
1.06	2	2		⊙	5Y6/1																			
1.67	3	3		⊙	5Y8/1																			
2.59	4	4		⊙	N9																			
3.20	5	5		⊙	5Y6/1																			
3.45	6	6		⊙	5Y6/1																			
3.63	7	7			N9																			
4.27	8	8																						
4.72	9	9																						
4.88	10	10			10YR4/																			
5.49	11	11			(N9) 2																			
6.10	12	12		⊙	N7																			
6.71	13	13			5G8/1																			
	14	14			5G7/2																			
8.18	15	15			N7																			
9.39	16	16																						
12.22	17	17																						
13.44	18	18																						
16.49																								

MARINE SNELL GRIT
LACUSTINE CLAY
LACUSTINE CLAY
MARINE SAND
GAMBER LST

PENOLA 7A

3.35
3.79
4.40
4.62
5.24
5.46
6.16

CORE	SECTION
1	1
2	1
3	1
4	1
5	1
6	2

MARINE SAND
GAMBIER LST

GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDUR ATION
		Ø			%	%	
		3 2 1 0 v f m c ve	POOR MODER WELL	ROUND S-R S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER WELL
	N9 N9(N8) N7 N7 N7 N8						

No 8

54-10000-10000

PENOLA No 8 (continued)

	CORE	SECTION	GRAPHIC LOG
25.50	12	1	
		1	
		2	
		3	
	13	4	
		5	
		6	
27.48		7	
		1	
		2	
	14	3	
		4	
		5	
		6	
29.49		7	
		X	
		1	
	15	2	
		3	
		4	
		5	
		6	
		7	
		8	
32.46		X	
		1	
	16	2	
		3	
		4	
34.14		5	

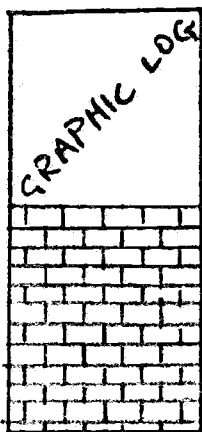
PENOLA No. 11.

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 v f m v vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-R S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR ATION POOR MODER F.F.I.
0										
0.36	1	1		N4						
0.96	2	1		5YR 6/1						
1.32	3	1		5YR 8/1						
	4	1		8.5YR 8/1						
1.93	5	1		5YR 6/1						
2.54	6	1		5YR 6/1						
3.15	7	1		5YR 4/1						
3.38	8	1								
3.99	9	1								
4.60	10	1		N9						
5.21	11	1		N9						
6.11	12	1		N9						
6.40	13	1		10YR 8/1						
7.01	14	1		5YR 8/1						
7.62	15	1		N9						
8.23	16	1		N9						
9.29	17	1		N9						
9.90	18	1		10YR 8/2						
10.51	19	1		10YR 8/2						
11.12	20	1		10YR 7/1						
12.34	21	1								
15.51	22	1		5YR 8/1						
15.95	23	1		N8						
16.56	24	1		5G 6/1						
17.17	25	1								
17.77	26	1		N8						
19.45	27	1								
21.69	28	1								
24.06	29	1								

PENOLA NO. 11 (CONT.)

27-28

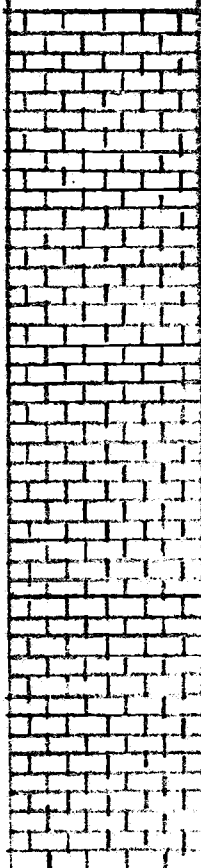
CORE	SECTION
	4
	5
	6
	7
	8
	9
	10
	11



PENOLA 12

DEPTH	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN	SORTING	GRAIN	SEDIMENT	FRAMEWORK	REMARKS	
					SIZE		SHAPE		COMPONENTS		COMPOSITION
					3 1 0 mm cm vc		ROUND S-R S-A ANGULAR		% 20 40 60 80		% 20 40 60 80
0											
0.61	1	1		5YR 8/1							
		5YR 4/4									
		5YR 5/6									
1.22	2	1		5YR 4/4							
1.65	3	2		5YR 8/1							
		C1		5YR 8/1							
2.44		C2		5YR 8/1							
3.05		C3		5YR 8/1							
3.81		C4		5YR 8/1							
4.57		C5	10YR 7/4								
5.37		C6	10YR 7/4								
6.10		C7	10YR 7/4								
6.86		C8	10YR 7/4								
7.62		C9	10YR 7/4								
8.38											
	4	1		10YR 8/2							
		2		10YR							
10.21		3		5YR 5/1							
		4		5YR 5/1							
	5	1		N 9							
		2		N 9							
11.81		3		N 9							
		4		N 9							
	6	1		N 9							
		2		N 9							
14.68		3		N 9							
		4		N 9							
15.29	7	1		N 9							
		2		N 9							
16.74		3		N 9							
		4		N 9							
	8	1		N 8							
		2		N 8							
18.13		3		N 8							
		4		N 8							
19.17	10	1		N 8							
		2		N 8							
20.70		3		N 8							
		4		N 8							
	11	1		5Y 7/2							
		2		5Y 6/1							
21.42		3		5Y 6/1							
		4		5Y 6/1							
22.03	13	1		5Y 8/1							
		2		N 7							
		3		N 7							
		4		N 7							
	14	1		N 7							
		2		N 7							
24.28		3		N 7							
		4		N 7							
	15	1									

PENOLA No 12 (CONT.)

	CORE	SECTION	GRAPHIC LOG
25-45	15	3	
		4	
	16	1	
		2	
3			
4			
5			
6			
7			
8			
9			
28-50	17	1	
		2	
		3	
		4	
		5	
		6	
		7	
30-74	18	1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	

PENOLA 15

[illegible]

PENOLA No 16

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 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
0	cutting	C1		N7						
1.52	cuttings	C2		5YR7/2						
3.05	cuttings	C3		10YR7/4						
4.57	1	1 2 3 4 5 6 7 8 9 10		5YR5/6 & 10YR8/2 5YR5/6 N8 5YR5/6 5YR5/6						
7.62	2	1 2 3 4		Mn N8 5YR5/6 5YR5/6						
10.06	3	1		10YR8/2						
13.41	4									
14.01	5	1 2		5YR4/4 5YR7/4						
16.46	6									
16.97	7	1		5YR5/6 (5Y6/1) 5YR5/6						
20.19	8	1 2 3 4 5		10YR6/6 10YR8/2						
21.99	9	1 2		10YR6/6 10YR8/2						
22.76	10	1		N4-N8						
	11									

MARINE SAND | BRIDGEWATER

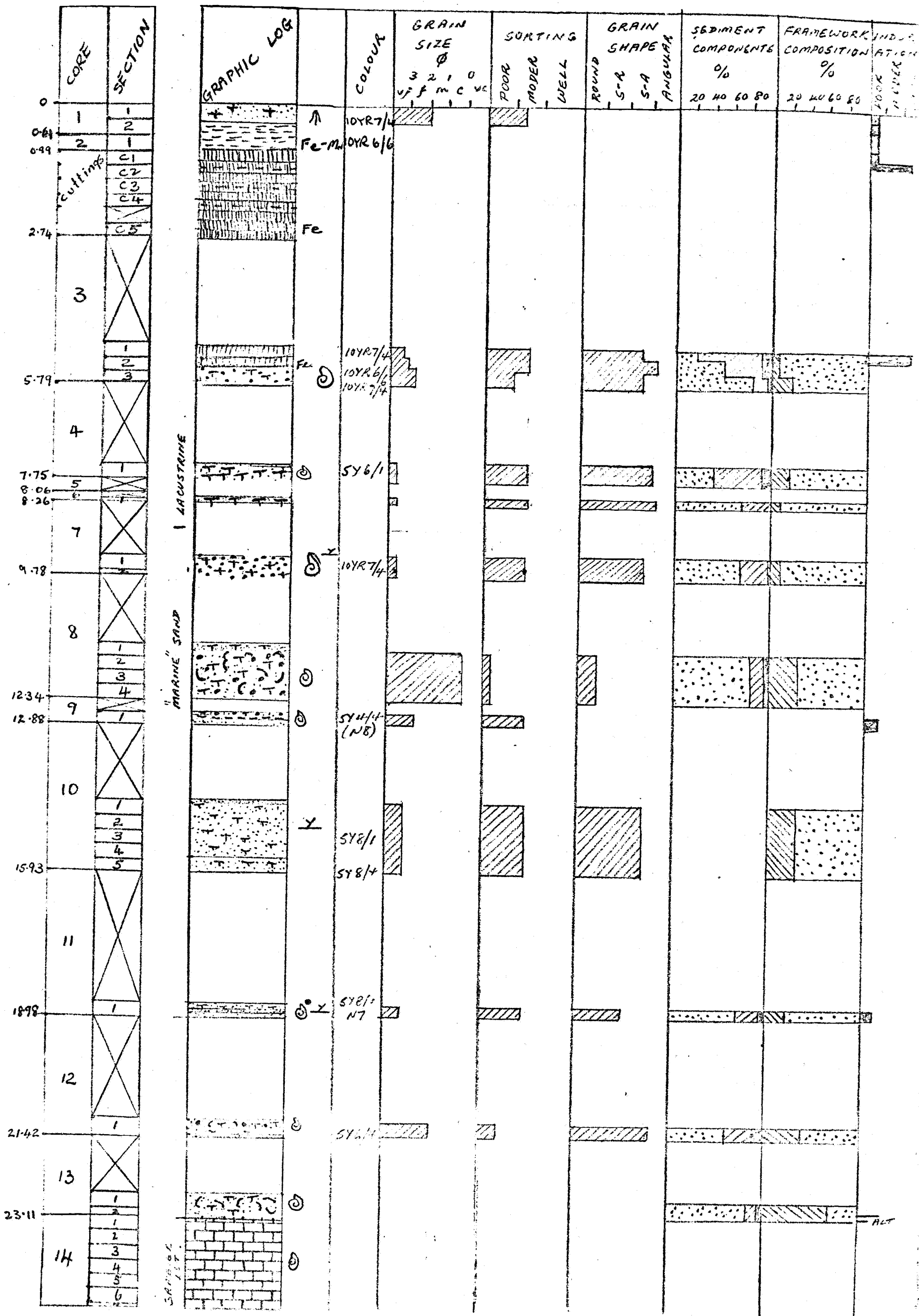
Fe

ALT

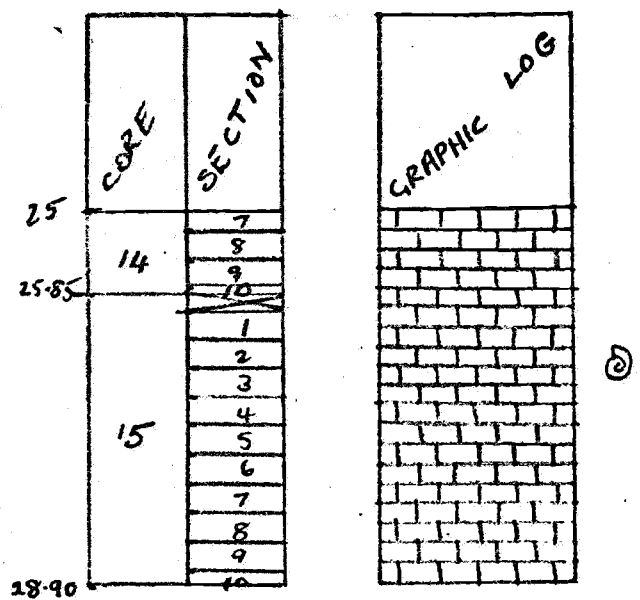
PENOLA 16 (CONT)

	CORR ²	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE	SORTING	GRAIN SHAPE	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR
						φ					
						3 2 1 0 v f m c ve					
							POOR MODER WELL	ROUND SA SA ANGULAR	20 40 60 80	20 40 60 80	POOR MODER WELL
25.38	11	2		⊙	5Y6/1						
	12										
27.13		1		⊙	N8						
	13										
30.18		1			5Y8/1						
30.79	14			⊙	N8						
	no core recovered										
33.83											
	15										
35.20		1		⊙	5Y6/1						
35.59	16	1		⊙	5Y6/1						
35.89	17	1		⊙	5Y8/1						
36.50	18	1		⊙	5Y8/1						
36.58				⊙	10YR8/6						
	20										
		1		⊙	N8						
		2		⊙	5Y6/1						
		3		⊙	5Y8/1						
39.62		4		⊙	N8						
	21	1		⊙	N8						
41.00		2									
	22	3									
		4									
		5									
		6									
		7									
43.59		8									
		9									

"MARINE" SAND
GAMBIA LST



PENOLA 19 (continued)



PENOLA 20

[illegible]

PENOLA 20 (continued)

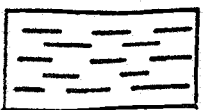
CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE				SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS %				FRAMEWORK COMPOSITION %			
				3	2	1	0	POOR	Moder	Well	ROUND	S-R	S-A	ANGULAR	20	40	60	80	20	40	60	80
25																						
26.77	12		N8 10YR8/2																			
	1																					
	2																					
28.90	13		10YR7/4 10YR8/2 5Y5/2																			
	1																					
	2																					
30.68	14		5Y6/1																			
	1																					
	2																					
	3																					
33.66	15		5Y7/4																			
	1																					
	2																					
	3																					
	4																					
	5																					
35.79	16		5Y7/4 5Y5/2																			
	1																					
	2																					
	3																					
37.37	17		5Y7/4 5Y6/4																			
	1																					
	2																					
39.77	18		5Y7/2																			
	1																					
	2																					
	3																					
41.38	19																					
	1																					
	2																					
	3																					
44.58	20																					
	1																					
	2																					
	3																					
	4																					
	5																					
	21																					
	1																					
	2																					
	3																					
	4																					
	5																					
	6																					
	7																					
	22																					
	1																					

GAMBER 157

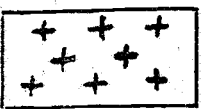
[illegible]



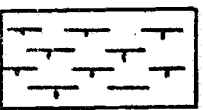
Quartzose sand/sandstone



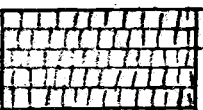
Clay/claystone



Calcarenite



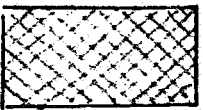
Calcilutite



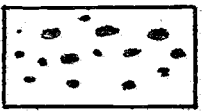
Calcrete



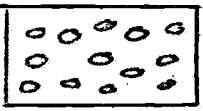
Soil



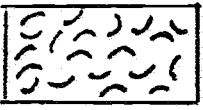
Chert



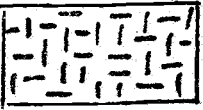
Quartz granules & pebbles



Calcrete pebbles



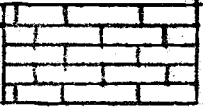
Shell grit



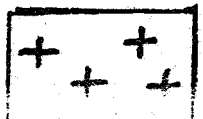
Lignitic clays



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

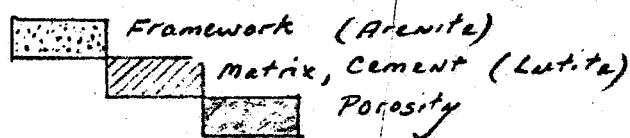
Mn Manganese staining

P Pyrite

Gl Glauconite

— Ferruginized surface

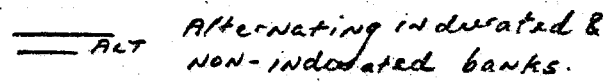
SEDIMENT COMPONENTS:



FRAMEWORK COMPOSITION



INDURATION:



NARACORTE #36

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE*	SORTING*	GRAIN SHAPE*	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR. ACTION
0.91	1								
1.52	2								
2.95	3								
4.47	4								
5.79	5								
7.31	6								
8.84	7								
10.26	8								
11.79	9								
12.39	10								
13.92	11								
14.53	12								
15.29	13								
16.31	14								
17.83	15								
18.95	16								
20.17	17								

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



NARACORTE #37

		CORE	SECTION	GRAPHIC LOG		COLOR
0.91		1	1		Fe	10YR 6/6
1.37		2	2			10YR 6/6
			1			
		3	2			
			3			
			4			
2.90			5			
		4	1		6	
			2			
			3			
4.34			4			
			5			
		5	1		6 6	
			2			
			3			
5.87			4			
			5			
		6	1			
			2			
			3			
7.24			4			
			5			
		7	1			
			2			
			3			
8.76			4			
			5			
		8	1			
			2			
			3			
10.29			4			
		9	1			
			2			
			3			
11.81			4			
			5			
		10	1			
			2			
			3			
13.33			4			
			5			
		11	1			
			2			
			3			
14.86			4			
			5			
		12	1			
			2			
			3			
16.38			4			
			5			
		13	1			
			2			
			3			
17.91			4			
			5			
		14	1			
			2			
			3			
			4			
20.34			5			
			6			

LIMESTONE (SHELLY & BRYOZOAL)

NARACORTE

?

GAMBIER LIMESTONE (BRYOZOAL)

NARACOORTE # 38

[illegible]

NARACORTE #38 (CONT.)

	CORE	SECTION	GRAPHIC LOG		COLOUR	GRAIN SIZE 3 2 1 0 φ f m c vc 	SORTING POOR MODER WELL 	GRAN SHAPE ROUND S-R S-A ANGULAR 	SEDIMENT COMPONENTS % 20 40 60 80 	FRAMEWORK COMPOSITION % 20 40 60 80 	INDURATION POOR MODER WELL
25-53	28	1	+ + + + +	.	N5						
26-14	29	1	+ + + + +	⊗	N5						
26-75	30	1	+ + + + +	⊙	N5						
27-36	31	1	+ + + + +	⊙ ⊕	10YR 6/6 (10YR 7/4)						
27-96	32	1	+ + + + +								
28-57	33	1	+ + + + +	⊗	5Y 7/1						
29-18	34	X									
29-79	35	1	+ + + + +	⊙ ⊕	5Y 6/1						
30-10	36	1	+ + + + +								
30-71	37	1	+ + + + +	⊙ ⊕	5Y 6/1						
31-32	38	X									
31-93	39	1	+ + + + +	⊙ ⊕	N 6.5						
32-38	40	X									
	41	X									
34-65	42	1	+ + + + +	⊙ ⊕	N5						
35-25		2	+ + + + +		N1						

NARACORTE # 39

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 f f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-A S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDURATION POOR MODER WELL
0.61	1	1		10YR6/6						
	2	2		10YR6/6						
1.22	3	1		5YR5/6						
	2	2		10YR6/6						
2.14	4	1		10YR7/6						
	2	2		10YR7/6						
3.20	5	1		10YR7/4						
	2	2		10YR7/4						
4.57	6	1		10YR6/6						
	2	2		10YR6/6						
5.79	7	1		10YR6/6						
	2	2		10YR6/6						
7.09	8	1		5YR5/6						
	2	2		5YR5/6						
8.61	9	1		5YR5/6						
	2	2		5YR5/6						
10.13	10	1		10YR6/6						
	2	2		10YR6/6						
11.66	11	1		10YR6/6						
	2	2		10YR6/6						
13.18	12	1		10YR7/4						
13.59	13	1		10YR7/4						
14.20	14	1		10YR6/6						
14.81	15	1		10YR6/6						
15.42	16	1		10YR6/6						
16.03	17	1		10YR7/6						
16.64	18	1		10YR7/4						
17.25	19	1		10YR7/6						
17.85	20	1		10YR6/6						
18.47	21	1		10YR6/6						
19.07	22	1		10YR6/6						
19.68	23	1		10YR6/6						
20.29	24	1		10YR6/6						
20.90	25	1		10YR6/6						
21.51	26	1		10YR6/6						
22.12	27	1		10YR7/4						
22.73	28	1		10YR7/4						
23.34	29	1		10YR6/6						
24.26	30	1		10YR6/6						
24.86				10YR6/6						

NARACORTE #39 (CONT.)

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 f f m c vc	SORTING POOR MODER WELL	GRAIN SHAPE ROUND S-A S-A ANGULAR	SEDIMENT COMPONENTS 20 40 60 80	FRAMEWORK COMPOSITION 20 40 60 80	INDURATION POOR MODER WELL
25.48	31	1	+	10YR 6/6						
26.09	32	1	+	10YR 7/4						
26.69	33	1	+	10YR 6/6						
27.30	34	1	+	10YR 6/6						
27.91	35	1	+	10YR 6/6						
28.52	36	1	+	10YR 6/6 N6						
29.26	37	1	+	10YR 6/6 N7						
29.87	38	1	+	N7						
30.48	39	1	+	10YR 6/6 N6						
31.09	40	1	+							
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	1	+							
34.75	46	1	+	N6.5						
35.36	47	1	+	N6.5 & 10YR 7/4						
35.97	48	1	+							
36.58	49	1	+							
37.19	50	1	+	N5						
37.79	51	1	+	N6 5Y 3/1						
38.45	52	1	+							
39.01	53	1	+	N3						
39.62	54	1	+	5Y 2/1						
40.23	55	1	+							
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	1	+							
43.38	61	1	+	5Y 2/1						

NARACOORTE # 40

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE *	SORTING *	GRAIN SHAPE *	SEDIMENT COMPONENTS %	FRAMEWORK (ARENITE) COMPOSITION %	INDUR-ATION
				ϕ $\frac{3}{4}$ f f m c v c					
					POOR MODER WELL	ROUND S-H S-A ANGULAR	20 40 60 80	20 40 60 80	POOR MODER. WELL
0-30									
0-91	1		5Y7/2						
1-37	2		5Y7/6						
1-98	3		5Y7/2						
2-59	4		5Y7/2						
3-03	5		5Y7/2						
3-66	6		5Y8/1						
4-27	7		5Y7/2						
4-88	8		5Y7/2						
5-49	9		5Y7/2						
6-10	10		5Y7/2						
6-71	11		5Y7/2						
8-00	12		5Y7/2						
8-61	13		5Y7/2						
9-22	14		5Y7/2						
9-68	15		5Y7/2						
10-29	16		5Y7/2						
10-97	17		5Y7/2						
11-58	18		5Y7/2						
12-19	19		5Y7/2						
12-80	20		5Y7/2						
13-41	21		5Y7/2						
14-02	22		5Y7/2						
14-63	23		5Y7/2						
15-24	24		5Y7/2						
15-85	25		5Y7/2						
16-46	26		5Y7/2						
17-07	27		5Y7/2						
17-68	28		5Y7/2						
18-29	29		5Y7/2						
18-67	30		5Y7/2						
19-28	31		5Y7/2						
19-89	32		5Y7/2						
20-42	33		5Y7/2						
20-65	34		5Y7/2						
21-26	35		5Y7/2						
21-87	36		5Y7/2						
22-48	37		5Y7/2						
23-24	38		5Y7/2						
24-15	39		5Y7/2						
25-07	40		5Y7/2						

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

NARAGDOORTE # 41

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN	SORTING			GRAIN			SEDIMENT	FRAMEWORK	INDURA					
				SIZE	POOR	MODER	WELL	SHAPE	ANGULAR	COMPONENTS	COMPOSITION	-TION						
				3 2 1 0 yf f m c ve				ROUND	S-R	S-A	%	%						
					20	40	60	80		20	40	60	80		POOR	MODER	WELL	
1-52	C1		N9															
	C2		5YR6/4															
3-05			5YR6/4															
	C3		10YR7/4															
4-57			10YR7/4															
	C4		10YR7/4															
6-01			10YR7/4															
	C5		10YR7/4															
7-62			10YR7/4															
	C6		10YR7/4															
9-14			10YR7/4															
	C7		10YR7/4															
10-67			10YR7/4															
	C8		10YR7/4															
12-19			10YR7/4															
	C9		10YR7/4															
13-72			10YR6/6															
	C10		⊙															
15-24			⊙															
	C11		10YR6/6															
16-76			10YR6/6															
	C12		10YR6/6															
18-29			10YR7/4															
	C13		10YR7/4															
19-81			⊙															
	C14		10YR7/4															
21-34			10YR7/4															
	C15		10YR7/4															
22-86			10YR7/4															
	C16		10YR7/4															
24-38			10YR7/4															
	C17		10YR7/4															

CUTTINGS

NARACORTE #41 (CONT.)

NAMIBIAN COAST																
CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDURATION		
				3 φ-1 f f m c vc	POOR	Moder.	WELL	ROUND	S-A	S-A	ANGULAR	% 20 40 60 80	% 20 40 60 80	POOR	Moder.	WELL
	C17		10YR7/4													
	C18		10YR7/4													
	C19															
1	1															

NARACORTE # 442

CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 1/4 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						
0.91	1	1	10YR 8/6						
	2	2							
1.52	2	1							
	3	1	10YR 7/6						
2.13	4	1	10YR 7/4						
2.74	5	1	5YR 7/6						
3.35	6	2	10YR 7/6						
	3	3							
	4	4							
4.70	7	5	10YR 7/4						
	6	6							
	7	7							
	8	8							
	9	9							
7.75	8	10	10YR 7/4						
	1	1							
	2	2							
	3	3							
	4	4							
	5	5	10YR 6/6						
	6	6							
	7	7	10YR 7/4						
	8	8							
10.79	9	1	5YR 8/4						
	2	2							
12.32	10	3	5YR 6/4						
	1	1							
13.11	11	2	10YR 8/2						
	3	3	(5YR 6/4)						
	4	4	5YR 5/6						
14.63	12	5	& N9						
	1	1							
	2	2	5YR 5/6						
16.15	13	3	10YR 6/6						
	1	1							
	2	2	5YR 5/6						
	3	3	10YR 8/6						
17.68	14	4	& N9						
	1	1							
	2	2	10YR 6/6						
19.20	15	3							
	1	1							
	2	2	10YR 6/6						
	3	3							
20.73	16	4							
	1	1							
	2	2	10YR 6/6						
	3	3							
22.10	17	4							
	1	1							
	2	2	10YR 6/6						
	3	3							
23.62	18	4							
	1	1	10YR 6/6						
	2	2							
	3	3							
	4	4							

NARACOORTE # 42 (CONT.)

[illegible]

NARACOORTE #43

[illegible]

NARACOORTE 43 (CONT)

25-30

26-52

28.04

NARRACOORTE #44

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

NARACOORTE # 44 (CONT.)

	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDUR-TION
					3 φ f m c vc	POOR	Moder	WELL	ROUND	S-R	S-A	ANGULAR	% 20 40 60 80	% 20 40 60 80	POOR MODER GOOD
26-52	22	1		—	10YR7/4										
		2													
		3													
		4													
	23	1		—	10YR6/6										
		2													
		3													
		4													
28-04		5		Fe											
29-11	24	1		—	10YR8/6 10YR7/4										
		2													
		3													
30-33	25	1		⊙	5YR7/4 8 N9										
		2													
		3													
		4													
31-24	26	1		⊙											
		2													
		3													
32-36	27	1		⊙	N9 8 10YR8/2										
		2													
		3													
33-12	28	1		⊙											
		2													
		3													
34-67	29	1		⊙	10YR8/6 8 5Y8/4										
		2													
		3													
		4													
		5													
36-17	30	1		FL	N9 8 5Y8/4										
		2													
		3													
		4													
		5													
38-30	31	1													
		2													
		3													
		4													
		5													

N. RACORTE # 45

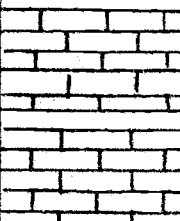
	CORE	SECTION	GRAPHIC LOG	COLOUR	GRAIN SIZE 3 2 1 0 φ f m c vc	SORTING P. OR MODER WELL	GRAIN SHAPE ROUND S-A S-A ANGULAR	SEDIMENT COMPONENTS %	FRAMEWORK COMPOSITION %	INDUR- TION
0-31	1	1		N9						
0-91	2	2	+	10YR7/4						
1-52	2	1	+	10YR8/6						
		2	+	10YR7/4						
	3	1	+							
		2	+	5YR5/6						
		3	+	10YR7/4						
		4	+							
3-05		5	+							
	4									
		1	+	10YR6/4						
4-57		2	+							
	5									
		1	+	10YR6/4						
		2	+							
6-10										
	6									
		1	+	10YR6/6						
7-62										
	7									
		1	+	10YR6/6						
9-14										
	8									
9-75		1	+	10YR6/6						
	9									
10-36		1	+	10YR6/6						
	10									
10-97		1	+							
	11									
11-58		2	+	10YR6/4						
	12									
12-19		2	+	10YR6/6						
	13									
		1	+	10YR6/6						
		2	+							
		3	+							
13-72		4	+							
		1	+	10YR6/6						
		2	+							
	14									
		3	+							
		4	+							
		5	+							
15-24										
	15									
		1	+	5Y8/1						
		2	+	10YR6/6						
		3	+							
		4	+							
16-76		5	+	10YR6/6						
		1	+							
	16									
		2	+	5Y8/1						
		3	+							
		4	+							
18-29		5	+	10YR7/6						
		1	+							
	17									
		2	+	10YR6/6						
		3	+							
		4	+							
19-81		5	+	N9						
		1	+	8Y8/4						
	18									
		2	+							
		3	+	5Y8/4						
		4	+							
21-34		5	+							
		1	+							
	19									
		2	+	N9						
		3	+	8Y8/4						
		4	+							
22-86		5	+							
		1	+							
	20									
		2	+							
		3	+							
		4	+							
24-38		5	+							
		1	+							
		2	+							

NARACOORTE #45 (CONT.)

CORE	SECTION
21	3
	4
	5
22	1
	2
	3
	4
	5

25-91

27.43

GRAPHIC LOG	COLOUR	GRAIN SIZE	SORTING			GRAIN SHAPE				SEDIMENT COMPONENTS	FRAMEWORK COMPOSITION	INDURATION		
		3 2 1 0 w f m c vc	POOR	MODER	WELL	ROUND	S-R	S-A	ANGULAR	%	%	POOR	MODER	WELL
										20 40 60 80	20 40 60 80			
	N9 5Y8/4 N9											