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NARACOOPA RUTILE LIMITED

REPORT ON E.L. 13/66, E.L. 14/66 AND E.L. 9/69, KING ISLAND, TASMANIA

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27th February, 1970.

Kenneth McMahon
& Partners

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INTRODUCTION

The purpose of this report is to assess all the information on King Island, which has been obtained to date.

The information can be classed under three headings:-

(1) Results of Naracoopa Rutile Limited's Exploration Programme.

(2) Results of assaying samples from a soil survey of King Island.

(3) Results of a research into literature on the geomorphology of King Island.

SUMMARY

1. Information from three sources - Naracoopa Rutile Limited's Exploration Programme, Wright's Soil Survey of King Island and Literature on the Geomorphology.of King Island - has been summarised.

2. Naracoopa Rutile Limited's exploration programme in areas E.L. 13/66 and 14/66 has not been encouraging to date. As a result of plotting all the assay results, a few locations for spot holes have been determined.

3. In the Naracoopa area the grid lines need to be closed to determine more fully the exact extent of the beach sand deposits here.

4. As part of his thesis work, Wright undertook a soil survey of King Island. His samples taken within the licence areas at half mile spacings along lines one mile apart, have been tested for percentage H.M. As a result, small areas of interest should be further tested by spot holes.

5. A survey of the literature on the geomorphology of King Island has led to a better understanding of the date and mode of formation of the sand dunes here.

RECOMMENDATIONS

It is recommended that:-

1. E.L. 13/66 be further tested by a few spot holes in promising locations and by drilling the original plottings of lines SB 1 and SB L.

Spot holes;	Line SB	6½	Hole 22
	Line	71	Hole 2
	Line	73	Hole 1
	Line	76	Hole 2

2. E.L. 14/66 be further tested by a few spot holes in promising locations.

Spot holes:	Line YR 1		Holes 46 to 51
	Line	35	Holes 13 to 14

3. E.L. 9/69's true potential be determined by closing the grid in the Naracoopa area.

I RESULTS OF NARACOOPA RUTILE LIMITED'S EXPLORATION PROGRAMME

Each of the three exploration licences is treated seppately, the logs and assay results for each line are summarised in tables and every assay result is plotted on plans of a scale one inch to four hundred feet, except in the southern Naracoopa area, where they are of a scale one inch to one hundred feet.

EL 13/66

The Seal Bay area in the south of the island (Plates I - IV).

Exploration started on EL 13/66 in September 1968 when fifty-five holes were drilled at various spacings on SB locations to the north and south of Big Lake and across the neck of the Stokes Point peninsula. A further nine holes were drilled at fifty foot intervals along SB 101-109 during December 1968.

It was suggested that the Big Lake was formerly part of Seal Bay and that concentrations of heavy mineral would occur in old strand lines similar to those found inland from Cowper Point. Holes SB 30 and 33 drilled in large dunes across the neck of Stokes Point showed values of one per cent H.M. It was believed that a further low-grade deposit of disseminated heavy mineral, similar to the Cowper Point dunes would exist here.

As a result a series of lines, SB 1, SB $6\frac{1}{2}$ and SB $10\frac{1}{2}$ were planned. SB 1 located to test the Stokes Point peninsula was never drilled. Lines SB $6\frac{1}{2}$ (eighty-three holes) and SB $10\frac{1}{2}$ (sixty-seven holes) heading north-west from the Big Lake and Colliers Swamp respectively, were drilled between May and October 1969. In September a further two lines, SBL and SBM were laid out to test the new dunes to the south of Big Lake and Colliers Swamp respectively. Line SBL was never drilled but line SBM was completed between September and October 1969.

The assay results from this area are not encouraging (see Summary Tables I-IV). Line SB $6\frac{1}{2}$ appears to be the most promising. It is thought that a few spot holes in the vicinity of the more interesting assay results (Holes 22 especially) would determine the true potential of this area.

Line SBM, although it has a low overall average of 0.5 per cent includes six holes with assay results above one per cent and, in one case, a result of 2.2 per cent. It is suggested that line SBL, south of line SB $6\frac{1}{2}$ and in the same general location as SBM, should be drilled as originally planned. This would help to prove or disprove the theory that it is, in fact, the new dunes which contain the heavy minerals.

It is also suggested that line SB 1 should be drilled to test the potential of Stokes Point. This would leave the western section of the licence area still to be tested.

Line	Number of Holes	%H.M.	Remarks
SB	55	0.5	Hole 36 - 1.1 % H.M.
SB	9	trace	
SB 6½	83	0.7	Hole 3 - 1.9 % H.M.
			Hole 5 - 1.1 % H.M.
			Hole 22 - 3.9 % H.M.
			0-5' - 6.5 % H.M.
			Hole 32 - 1.8 % H.M.
			Hole 47 - 1.4 %.H.M.
			Hole 49 - 1.2 % H.M.
			Hole 52 - 1.4 % H.M.
			Hole 61 - 1.2 % H.M.
			Hole 62 - 1.1 % H.M.
			Hole 64 - 1.4 % H.M.
			Hole 70 - 1.0 % H.M.
			Hole 71 - 1.2 % H.M.
SB 10½	67	0.3	Hole 12
			0-5' - 1.3 % H.M.
			5-10' - 1.2 % H.M.
			15-20' - 1.2 % H.M.
SBM	18	0.5	Hole 4
			0-5' - 1.0 % H.M.
			20-25' - 1.0 % H.M.
			30-35' - 1.1 % H.M.
			35-40' - 1.2 % H.M.
			40-45' - 1.1 % H.M.
			Hole 6
			5-10' - 1.4 % H.M.
			15-20' - 1.3 % H.M.
			Hole 18
			25-30' - 1.2 % H.M.
			Hole 22
			30-35' - 2.2 % H.M.
			40-42' - 1.0 % H.M.
			Hole 24
			5-10' - 1.2 % H.M.
			25-30' - 1.3 % H.M.
			40-45' - 1.0 % H.M.
			Hole 28
			5-10' - 1.0 % H.M.

EL 14/66

The Yellow Rock area in the north-west of the island (Plates V - VII).

Exploration started on EL 14/66 in September 1968 when twenty-three holes were drilled at various spacings on YR locations running west to east across the north and centreoof the licence area. A further thirty holes were drilled at fifty foot intervals along YR 101-130, north of YR 9, during December 1968.

It was discovered that the major dunes, which were very calcareous, contained only trace quantities of H.M. As a result, two lines were planned running parallel to the coast, to cross the new dunes. Line YR 1 was drilled between July and October 1969 and then abandoned. Line YR 2 was never drilled.

The only line with any results over one per cent H.M. was YR 1 (see Summary Tables VI-VIII). It is again suggested that a few spot holes should be put down in the Duck Bay area close to holes 46 to 54, to determine the true potential of this area.

It is believed that lines YR 1 and YR 2 were planned to run in the wrong direction. It is, therefore, not suggested that line YR 2 should be drilled but that instead, a series of lines running at right angles to the coast, should be tested.

Line	Number of Holes	% H.M.	Remarks
YR	29	0.3	No holes contained more than 0.8 % H.M.
R	30	< 0.1	
YR 1	30	0.4	Hole 0 5-10' - 1.8 % H.M. 10-13' - 1.2 % H.M. Hole 46 10-15' - 1.3 % H.M. Hole 48 20-25' - 1.0 % H.M. 30-35' - 2.7 % H.M. 50-55' - 4.2 % H.M. Hole 52 15-20' - 1.0 % H.M. Hole 54 20-25' - 1.3 % H.M.

EL 9/69

The Naracoopa area (Plates XVIII-XI).

Since April 1969 lines 6-163 have been drilled. All the lines run inland at right angles to the coast, the zero points being HWM, 125 feet inland or 150 feet inland. The lines lie on a grid starting six hundred feet north of the mouth of the Frazer River. Lines 6-26 and lines 31 and 35 are four hundred feet apart, lines 26 and 31 five hundred feet apart and lines 35-163 1,600 feet apart. Lines JG 1 and JG 2 are two short scout lines in the Naracoopa area.

The most obvious fact here is the steady drop in values from south to north (see Summary Tables IX-XXVI). Between lines 6 and 35 there is a drop from 59.6 per cent H.M. to 29.0 per cent H.M. Between lines 51 and 163 there is a further dropefrom 2.2 per cent H.M. to 0.1 per cent H.M.

It is suggested that the grid should be closed between lines 6 and 35 so that estimates may be made as to the quantity of heavy mineral present.

Line	Number of holes	% H.M.	Remarks
6	8	59.6	Hole 60 5-10' - 80.2 % H.M. Hole 90 10-10.67 - 94.9 % H.M. Hole 120 0-5' - 87.8 % H.M. 5-10' - 89.2 % H.M. 10-11' - 79.6 % H.M. Hole 150 0-5' - 94.5 % H.M. 5-9' - 95.9 % H.M. Hole 210 outside the deposit
10	8	50.5	Hole 90 0-5' - 79.9 % H.M. 5-9' - 91.0 % H.M. Hole 120 5-9' - 95.2 % H.M. Hole 150 0-5' - 87.6 % H.M. 5-6' - 81.7 % H.M. Holes 180 (0.6 % H.M.) and 210 (0.8 % H.M.) outside the deposit
14	7	36.6	Hole 90 5-10' - 88.9 % H.M. Holes 150 (3.1 % H.M.) and 180 (0.7 % H.M.) outside the deposit.
18	6	33.4	Hole 120 5-8' - 87.6 % H.M.
22	6	25.9	Hole 150 (2.9 % H.M.) outside the deposit.
26	6	30.5	Hole 90 5-9' - 85.8 % H.M. Hole 150 (2.6 % H.M.) outside the deposit.
31	6	29.0	
35	7	12.9	Hole 180 (3.0 % H.M.) outside the deposit.
51	45	2.2	Hole 875 5-6' - 10.0 % H.M. Hole 1125 5-10' - 4.8 % H.M. 10-15' - 5.0 % H.M. 15-16' - 4.2 % H.M. Hole 1375 5-9½' - 17.1 % H.M. Hole 1625 5-10' - 6.8 % H.M. 15-17' - 17.5 % H.M.

Line	Number of Holes	% H.M.	Remarks
			Hole 1725
			10-13.5' - 8.1 % H.M.
			Hole 1825
			5-9.5' - 4.0 % H.M.
			Hole 1925
			0-5' - 6.0 % H.M.
			Hole 2025
			5-10' - 7.3 % H.M.
			Hole 2425
			0-5' - 9.0 % H.M.
			5-10' - 5.0 % H.M.
			Hole 2725
			5-10' - 11.9 % H.M.
			Hole 3125
			0-5' - 10.0 % H.M.
			Hole 3725
			0-5' - 10.3 % H.M.
67	27	0.6	
83	22	2.1	
99	20	0.2	
115	18	0.5	
JG 1	4	7.4	
JG 2	5	29.9	Hole 192
			5-10' - 80.7 % H.M.
131	14	0.2	
147	26	0.2	
163	14	0.1	

II RESULTS OF ASSAYING SAMPLES FROM A SOIL SURVEY OF KING ISLAND (PLATE XII)

During Wright's study of the geomorphology of King Island (see Section III), a soil survey of the sand dunes was undertaken in an attempt to define more accurately the boundaries between the old and new dune systems.

The survey grid started at the mouth of Sea Elephant River and consisted of a series of lines running at right angles to the coast. The lines were one mile apart and samples were taken at half mile intervals.

All the samples taken along the lines surveyed within Naracoopa Rutile Limited's Exploration Licences were assayed for per centage H.M. in Adelaide during January 1970. The results of these assays, together with the logs for each hole are summarised in Tables 1 to 37.

A few possible sites for spot holes have been determined as a result of this survey.

EL 13/66

Line	Number of Holes	% H.M.	Remarks
63	4	0.9	
64	13	0.5	
65	2	1.9	Hole 2 0-5' - 2.8 % H.M.
66	9	0.5	Hole 1 0-5' -- 2.7 % H.M.
67	10	0.5	Hole 1 0-5' - 3.6 % H.M.
68	14	0.8	Hole 14 0-5' - 3.6 % H.M. Hole 14 0-5' - 2.6 % H.M.
69	12	0.5	
70	12	0.5	
71	3	2.3	Hole 2 0-5' - 2.3 % H.M. 10-15' - 4.4 % H.M. 15-20' - 3.2 % H.M. Hole 3 0-5' - 2.1 % H.M.
72	7	0.7	Hole 1 0-5' - 2.1 % H.M.
73	11	1.1	Hole 1 0-5' - 4.2 % H.M. Hole 2 10-15' - 2.2 % H.M. 15-20' - 2.6 % H.M. Hole 11 0-5' - 2.1 % H.M.
74	7	0.7	Hole 1 0-5' - 2.1 % H.M.
75	12	0.3	
76	4	1.0	Hole 2 0-5' - 3.2 % H.M. 5-10' - 2.1 % H.M. 10-15' - 4.6 % H.M.

Line	Number of Holes	% H.M.	Remarks
77	4	1.1	Hole 1 0-5' - 2.1 % H.M.
78	4	0.9	
79	3	0.4	
EL 14/66			
34	4	1.0	Hole 2 0-5' - 2.78 % H.M.
35	14	0.7	Hole 12 15-20' - 2.6 % H.M. Hole 13 10-15' - 2.6 % H.M. 20-25' - 4.6 % H.M. 25-30' - 3.2 % H.M. Hole 14 10-15' - 2.7 % H.M.
36	7	0.4	
37	9	0.4	
38	8	0.5	
39	7	0.5	
40	8	0.3	
41	6	0.5	
42	6	0.4	
EL 9/69			
93	5	2.2	Hole 1 0-5' - 12.6 % H.M. 5-10' - 3.4 % H.M. Hole 2 0-5' - 3.4 % H.M. 5.10' - 2.6 % H.M.
94	7	1.7	Hole 1 0-5' - 12.6 % H.M. 5-10' - 5.4 % H.M. Hole 2 0-5' - 3.4 % H.M. 5-10' - 2.6 % H.M.
95	4	1.0	Hole 3 0-5' - 2.0 % H.M.
96	14	0.3	
97	3	0.5	
98	8	1.0	Hole 2 0-5' - 5.5 % H.M. 5-10' - 3.2 % H.M. Hole 3 0-5' - 2.1 % H.M.
99	7	0.5	Hole 1 5-10' - 4.1 % H.M. 10-15' - 2.5 % H.M.
100	9	1.0	Hole 1 0-5' - 2.3 % H.M. 5-10' - 3.4 % H.M. 10-15' - 4.2 % H.M.

Line	Number of Holes	% H.M.	Remarks
100	9	1.0	Hole 2 0-5' - 11.9 % H.M. 5-10' - 9.6 % H.M. 10-15' - 5.4 % H.M.
1	8	1.0	Hole 1 0-5' - 2.6 % H.M. 5.10' - 4.2 % H.M. Hole 2 0-5' - 3.1 % H.M.
2	8	0.4	Hole 1 10-15' - 2.6 % H.M.

III SUMMARY OF THE RESULTS OF A RESEARCH INTO LITERATURE ON THE GEOMORPHOLOGY OF KING ISLAND

INTRODUCTION

This section is based on information obtained from the following sources:-

1. The manuscript for an unpublished Ph.D Thesis written by Lawrence Wright of London University on the Geomorphology of King Island.

2. A paper written by J. N. Jennings in 1959 on "The coastal geomorphology of King Island, Bass Strait, in relation to changes in the relative level of land and sea" (Records of Queen Victoria Museum, Launceston, N.S.) together with his supplementary paper "Sea level changes in King Island, Bass Strait" (Zeitschrift fur Geomorphologie 1960).

3. The soil survey of King Island undertaken by the C.S.I.R.O. in 1932.

General comments are made on the whole island with more detailed notes on the three areas held by Naracoopa Rutile. For convenience these areas have been termed Area I in the west (E.L. 14/66), Area 2 in the south (E.L. 13/66) and Area 3 in the east (E.L. 9/69).

GEOLOGY

King Island is part of an anticine trending north. The base of the island is composed of Pre-Cambrian rocks. These are surrounded by Devonian Granite in the north, west and south-east and Cambrian rocks between Naracoopa and Grassy. Small outcrops of Tertiary limestone occur in the Naracoopa area. Most of the coastal areas and practically all the north and south of the island are masked by superficial deposits in the form of sand dunes.

Area 1

This includes the belt of Devonian Granite running from Whistler Point to the Pass River, backed by Quaternary superficial deposits.

Area 2

This is composed of a large inland area of Quaternary superficial deposits in the form of both old and new dunes, with a coastal fringe of Pre-Cambrian rocks at Surprise Point, Stokes Point and Seal Point and Devonian Granites at Cataraque Point and in the north-east.

Area 3

This is composed of a comparatively narrow coastal belt of dunes backed by Pre-Cambrian rocks and interrupted by a few isolated outcrops of Tertiary limestone.

SOILS

This information is based on the soil survey of King Island undertaken by the C.S.I.R.O. in 1932. All major soil types found on the island also occur within the areas of interest.

1. Currie Calcareous Sand

This covers the wide belts of new dunes in both Area 1 and 2. It is absent from Area 3. The soil is derived directly from dune sand, being composed predominantly of weathered shells. It is characteristically uniform in profile.

2. Yambacoona Sand

This only occurs in two small sections in Area 1 along the Bungaree Creek and in the south-east close to the Pass River.

The soil is characteristically red-brown in colour with a high sand and correspondingly low clay content, a predominance of coarse over fine sand and an abrupt change to calcareous yellow sand at about forty-five inches.

3. Pegarah Fine Sandy Loam

This only occurs over a small section to the south of Area 3.

The soil is closely associated with the plateau areas of the island. It is essentially a residual soil, directly overlying the country rock of schists and slates from which it was derived. The soil is free from stones and rubble although ironstone gravel occurs frequently throughout and small layers of lateritic ironstone are common.

The soil is extensively podsolised with a high proportion of organic matter, including charcoal in Horizon A, a high sand and correspondingly low clay content, except in Horizon C where clay becomes more dominant and a predominance of fine over coarse sand in the upper horizon.

4. Nugarah Sandy Loam

This only occurs in the centre and north-east of Area 1.

It is suggested that this soil is in fact the subsoil of a previous soil formation which has lost its original sandy surface.

5. Camp Creek Sandy Loam

This occurs on two granite knolls towards the east of Area 2.

The soil is characteristically faintly podsolised with a moderate amount of organic material at the surface, decreasing rapidly with depth, and a high sand content with coarse sand predominating.

6. Naracoopa Sand

This occurs to the east and north of Area 1, over the central section of Area 2 and along the coast of Area 3.

The soil is found on the inland dune formations. It is known locally as "fernbank" because of the characteristic vegetation of bracken fern.

7. Lappa Sand

This is found over large sections of both Areas 2 and 3 where it covers ninety per cent of the ground.

The soil is characterised by the presence of sulphuretted hydrogen throughout the profile indicating anaerobic conditions.

8. Taroona Sand

This occurs over two small sections in the south-east of Area 1.

This soil is extensively podsolised.

9. Swamp Soil

This occurs in Area 1 round Bungaree Lake.

10. Unclassified Soils

(a) Tertiary Limestone areas.

Over small sections of Area 3 there is a deep red loam, the top eight inches of which is enriched by organic matter.

(b) Stokes Point

Here where the limestone is not exposed there is a drifting unconsolidated dune sand. This is red in colour and admixed with a quantity of $CaCO_3$ rubble. It is never deep, forming a mere surface cover.

COASTAL FEATURES OF THE THREE AREAS

The main coastal features encountered in the three areas of interest are described in turn.

AREA 1

1. Coastal Platforms

These occur on Yellow Rock Foreland and on several small projecting headlands to the south. These platforms are bevelled at ten to twenty-five feet above HWM and pass under the gently rising dune slopes behind. For example, on Yellow Rock Foreland to the north there is a low foredune in front of the degraded cliff whilst to the west there are four very low and simple sand ridges.

2. New Dunes

These cover by far the greatest part of the area. Four different set ups occur:-

(a) In the sandy bays, sand beaches front the active dune cliffs, where any vegetation suffers from constant modifications.

(b) Behind the low rock reefs of the shoreline actively worked sand and shingle beaches gradually merge into the main dune slope which is fixed or partly fixed by vegetation.

(c) In the more exposed areas the rock reefs are replaced by active low cliffs, ten to fifteen feet high, covered by new dunes. These may be seen near Whistler Point.

(d) As a result of the intervention of lime rich water seepage from the dune face at the contact with the rock base a strip of tufa marsh has developed between the beach and the dunes. This densely vegetated slope builds up and becomes convex with the precipitation of tuff.

3. Salt Marsh

A number of small patches and strips of salt marsh occur near the mouth of Bungaree Creek.

AREA 2

Here rocky headlands alternate with sandy bays.

1. Rocky Headlands

These carry to a varying extent all the evidence of former shoreline development - marine platforms, hanging coves, sea caves, stacks and cobble banks. In places these features are masked by both old and new dunes.

TABLE

Headland	Height of Platform Feet	Width
A	6 -- 7	20 yards
B	6 -- 7	"
C	6 -- 7	"
Cataraque West	45	?
Cataraque East	38	?
Seal Rocks	23 -- 59	?
Surprise Bay	26	?

At a number of points on Surprise Headland the degraded cliffs are not only vegetated but carry a thin skin of breccia. The angular rock fragments are surrounded by a matrix of ferruginous sand but elsewhere consolidation is due to calcium carbonate derived from cliff top divides. These are the product of subaerial weathering in a different climate from the present, possibly during the periglacial (Cryergic) conditions of the Pleistocene glacial shoreline.

2. Sandy Bays

These are broad and contain belts of new dunes backed intermittently by old dunes. Both these systems are more pronounced than elsewhere on the island, with the parabolic systems swinging in from the sandy bays laterally behind the bases of the rocky headlands.

West of Red Hut Headland there is a broad depression between new dunes and old dunes. The latter are different in character from the usual dominant pattern of subdued parabolic dunes. Here they rise from approximately sea level to fifty to one hundred feet up the south-east slope of the plateau in a series of NW to SE ridges, which appear to be degraded but apparently formerly quite substantial foredunes. The depressions between are often swampy and are occupied by a number of streams which join the Seal River and its major tributaries at right angles. Parabolic dunes are subsidiary in this area. Gravel pits by the road south of Black Forest lie at about fifty feet behind most of the old dunes. These may be of marine origin.

The Big Swamp occupies the east end of the depression between the two dune systems. A low sand ridge at its eastern end is related to a phase of open water over the extent of the Big Swamp which now has only small patches of open water amongst tea-tree swamp. There is practically no gradient in the Seal River between Big Swamp and Big Lake, which is practically at HWM. On the north and east sides of Big Lake there is a series of very low sand ridges varying from a few inches to at the most two to three feet in height and five to ten yards across. There is no general rise in land level across this belt of ridges. They are obviously related to the lake and not to sea shore features of the time of the old dune formation. They have ceased to form since the fresh water marsh vegetation now surrounds the open water. Behind the sheltered western shore there is a deeper belt of tea-tree swamp.

West of the swamp there is gently rising cleared ground to the foot of a group of rocky ridges which rise twenty to thirty-five feet above lake level. Between the ridges and towards the west there is level and in parts swampy ground. Beyond there is a chain of lagoons, a series of small lakes which rise in level west and lie between new dunes on one side and plateau slopes partly covered by old dunes on the other.

The line of bores from Big Lake to Mr. D. Bowling's homestead, together with other scattered bores, reveal thin young sediments on bedrock floor at levels of fifteen to thirty feet above HWM. These are mainly sands or fine gravels, though some silty clays occur near the surface. Towards the surface the sand is quartzose bur carries a relatively high proportion of shell sand rich in marine mollusca, over seventy species of which were recorded.

Fossil remains point to an open coast of rocky reefs and pocket beaches when the sea level reached up to thirty feet higher than at present. The fauna is typical of that found in Bass Strait today with two exceptions of warmer water foraminiferal species from D60 and one from D55.

Below the rock ridges sediments close to sea level contain only three marine species and one foramaniferal sample (from D38) which indicates a marine swamp. There is no indication of a sea level change here but the seaward dune barrier was not as complete as now and the Big Lake must have been a salt lagoon.

AREA 3

This part of the coast is constructional with the brief exceptions of the Blowhole and the south side of Cowper Point where there is an active sandbuff.

The area may be divided into two sections, Sea Elephant Bay and Cowper Point.

1. Sea Elephant Bay

Here behind the beach there is a low vegetated sand terrace, often fifty yards wide, backed by a fixed old leached sand cliff twenty to thirty feet high, the cliff foot being normally three to six feet above HWM. Long low sand ridges three to five feet high and as many as four in number occur over most of the low terraces. Each of these represent the very early stage in development of a foredune.

Inland from the cliff there is a belt some three hundred yards wide where aerial photos reveal linear patterns suggesting further strandlines, the clearest and most continuous of which occur behind the middle of the bay. In the field these are seen to be low ridges of leached quartz sand, separated by wetter depressions, the height difference being only a few feet and the surface rising gently as a whole inland. Where the Eldorado Creek cuts across this belt, the ridges bend inland into the mouth of the valley as might be expected of shoreline features. These sand ridges appear to be degraded older

equivalents of sand ridges of the New Shoreline System. Their inland margin is generally not well defined, taking the form of a steep rise. At one of the sharpest breaks of slope an aneroid height of forty-five feet was obtained.

Further inland there is a zone of sink holes in the Tertiary limestone.

2. Cowper Point

Between Blowhole Creek and the Sea Elephant River, the strandline feature broadens from a narrow belt in the south to two miles in the vicinity of Cowper Point.

North of the Blowhole a broad swamp feature just above mean sea level lies between the old and new shorelines. Seaward of this there is a narrow new dune belt fifty to sixty feet at the highest, which broadens north to a big mass of parabolic dunes rising to heights of over one hundred feet behind Cowper Point.

Along the southern part of the shore from the Blowhole to Cowper Point, the front of the new dune belt is a fixed cliff equivalent to the fixed cliff in older sands behind Sea Elephant Bay and below this cliff are one or two low sand ridges. South of Cowper Point erosion supervenes to pinch out the fore-dune belt. Here the coast is retreating and local residents report the complete disappearance of quite high dunes in the last thirty years. The northern flank of Cowper Point is prograding and there is a series of narrow fore-dune ridges five to ten feet high running north-west to south-east. These continue north to form the spit which is gradually deflecting the mouth of the Sea Elephant River to the north. Between 1946, when the aerial photo coverage was taken, and 1965, this spit had grown visibly and caused the river to debouch even further to the north. Behind the spit there lies a protected area of salt and freshwater marsh and also a complex pattern of former meanders of the Sea Elephant River.

The new dunes of Cowper Point encroach on to the Old Shoreline, which reach a maximum width of one mile. These also form a blunt foreland one mile south of Cowper Point.

DATING

1. 300-550 feet peneplain - post-Tertiary (Wright)

2. 250 feet peneplain - post Tertiary (Wright)

3. 225 feet marine platform - highest Pleistocene sea level stand.

4. 120-150 feet marine platform - Second Pleistocene sea level stand.

5. 15-65 feet Old Shorelines. Last interglacial.

Mollusca and foramaniferal faunas of these shorelines are common to the Bass Strait today with the exception of a few warm water foramanifera in emerged shelly beach deposits at fifteen to thirty feet between the old and new dunes north of Seal Bay. The old dunes are adjusted to the present wind regime so that the climate was not very different from the present at the time of their formation. There appears to be reasonable grounds for the correlation of them with the Mella sand and the Ancient Series of sand ridges of the Smithton area. Radio-carbon dating of the peat overlying Mella sand is $< 33,760$ years.

6. Low Sea Level Stand

At City of Melbourne Bay a deltaic deposit exposed between H.W.M. and four feet implies a contemporary sea level as low or lower than the present one. The associated plant remains indicate climatic conditions not very different from the present though it they are perhaps slightly colder or wetter. The deposit must have been laid down after the erosion of the forty to fifty feet marine platform above it and after the deposition of the beach ridges between twenty-five to thirty-five feet close by. Buried beneath the old dune cover the deltaic deposit registers the end of the old shoreline sequence or a time somewhat subsequent to it but long prior to the new dunes. Driftwood was dated $37,500 \pm 1,920$ years. The present state of knowledge suggests that this date belongs to a major (double) interstadial in the Wisconsin (personal communication with Jennings).

7. 0-15 feet New Shoreline

Mollusca collected from two emerged beaches are all of species common to the Bass Strait today. The associated soils are so immature and the landforms generally so fresh that it is not possible to date the new dunes as older than Recent. In fact, it is debatable (Jennings) as to whether they might not belong to an interstadial period but rather that they may represent the effect of a reduction in oceanic storminess.

There is a pronounced lack of signs of contemporary wave attack on King Island. Active cliffs in bedrock are far less prominent than might be expected. Even along the

extremely exposed high coast of the south-west between Cataraque Point and Surprise Point there are many unattached cliffs, often carrying cemented breccia resembling "head" and possibly formed in the last glacial period.

All the facts may be explained by a small negative movement of the relative level of land and sea or by marked reduction in storminess. In the latter case the "emerged" shore platforms can be equated with active but high shore platforms in Victoria and New South Wales, which many authors ascribe to present day storm wave action. The storm and clifflets of King Island are better developed and more frequently found in sheltered than in exposed positions. These facts fit in better with the interpretation in terms of differential survival of emerged platforms. Further it appears that the present time is one of greater storminess rather than less storminess compared with the recent past.

King Island is, therefore, regarded as providing good evidence of Recent emergence of the order of six to ten feet and, in this respect, it conforms to the general picture for Australia.

DRAINAGE EVOLUTION

A considerable portion of Wright's thesis was devoted to this topic. A few notes on his comments on the drainage evolution of King Island are included here.

1. Original drainage system. This consisted of comparatively short streams flowing from the central area directly to the west and east coasts.

2. River capture. With the development of the 300-550 feet peneplain the eastern streams became dominant, capturing large sections of the western streams, e.g. the Sea Elephant River was a major pirate.

3. Drainage modifications. To the east four of the creeks crossing the 300-550 feet peneplain have developed one to two mile long gorges as the result of renewed downcutting in Pleistocene times.

   Where the Seal River crosses the 250 feet peneplain this has also developed incised meanders.

4. Effects of the coastal rim of sand dunes. Many of the river mouths are blocked by sand dunes and are diverted gradually north. The most spectacular example is the spit deflecting the mouth of the Sea Elephant River. Several other smaller streams being unable to break the wall of dunes die out before reaching the sea. In contrast the Ettrick River has cut itself a dramatic gorge outlet across the dunes.

5. Estuarine plains of the north. Most of the northern sector of the island is composed of drained lagoons underlain by marine or estuarine deposits and stretches of sand dunes, there being several sections where dunes from the west and east coasts overlap.

K E Y

Base			Colour		
Cl	-	Clay	Bl	-	Black
C.R.	-	Coffee Rock	Br	-	Brown
H.S.	-	Land Strata	Gr	-	Grey
I.S.	-	Indurated Sand	Wh	-	White
R	-	Rock	Y	-	Yellow
S	-	Sand			
W	-	Water			

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	VI	EL 14/66		YR
	VII	EL 14/66		R 101-130
	VIII	EL 14/66		YR 1
	IX	EL 9/69		6
	X	EL 9/69		10
	XI	EL 9/69		14
	XII	EL 9/69		18
	XIII	EL 9/69		22
	XIV	EL 9/69		26
	XV	EL 9/69		31
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	9	EL 13/66		71
	10	EL 13/66		72
	11	EL 13/66		73
	12	EL 13/66		74
	13	EL 13/66		75
	14	EL 13/66		76
	15	EL 13/66		77
	16	EL 13/66		78
	17	EL 13/66		79
	18	EL 14/66		34
	19	EL 14/66		35
	20	EL 14/66		36
	21	EL 14/66		37
	22	EL 14/66		38
	23	EL 14/66		39

24	EL 14/66	40
25	EL 14/66	41
26	EL 14/66	42
27	EL 9/69	93
28	EL 9/69	94
29	EL 9/69	95
30	EL 9/69	96
31	EL 9/69	97
32	EL 9/69	98
33	EL 9/69	99
34	EL 9/69	100
35	EL 9/69	1
36	EL 9/69	2

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Hole	Depth	Base	Colour	W.Y.	%H.M.
47	9'	H.S.	Wh/Br	1'	1.4
48	10'	I.S.	Wh	0'	0.4
49	10'	H.S.	Wh	1'	1.2
50	12'	S	Wh	2'	0.7
51	6'	I.S.	Wh	Dry	0.9
52	7'	H.S.	Wh	2'	1.4
53	6'	Cl	Wh	1'	0.7
54	6'	Cl	Wh	0'	0.6
55	6'	H.S.	Wh	5'	0.6
56	4'	H.S.	Wh	3'	0.5
57	14'6"	Cl	Wh	7'	0.8
58	21'	I.S.	Wh/Br	15'	0.4
59	14'	Cl	Wh	12'	0.2
60	15'	Cl	Wh	11'	0.3
61	5'	Cl	Wh	1'	1.2
62	4'	Cl	Wh	0'	1.4
63	4'	I.S.	Wh	1'	0.5
64	4'6"	I.S.	?	1'	1.4
65	5'	I.S.	Wh	1'	0.9
66	6'	I.S.	Wh	2'	0.7
67	5'	I.S.	Wh	3'	0.1
68	4'	I.S.	Wh	2'	0.8
69	4'	I.S.	Br	0'	0.9
70	6'	I.S.	Wh/Br	1'	1.0
71	4'6"	I.S.	?	1'	1.2
72	7'	I.S.	Wh	0'	0.6
73	7'	I.S.	Wh	0'	0.6
74	5'	I.S.	Wh	0'	0.8
75	3'6"	I.S.	Wh	0'	0.3
76	3'	I.S.	Wh	1'	0.4
77	4'	I.S.	Wh	1'	0.4
78	3'6"	I.S.	Wh	1'	0.5
79	4'	I.S.	Wh	0'	0.9
80	3'	H.S.	Wh	1'	0.6
81	4'	I.S.	Wh	1'	0.5
82	4'	I.S.	Wh	Dry	0.4

TABLE I

LINE SB

Hole	Depth	% H.M.
1	48 ft.	0.6
2	30	0.5
3	35	0.1
4	33	0.5
5	34	0.7
6	19	0.8
7	34	0.7
8	17	0.5
9	44	0.7
10	13	0.5
11	8	0.8
12	44	0.6
13	8	0.6
14	7	0.3
15	15	0.2
16	8	0.2
17	5	0.4
18	5	0.4
19	5	0.7
20	17	0.5
21	5	0.3
22	7	0.2
23	7	0.4
24	36	0.3
25	40	0.3
26	22	0.4
27	46	0.3
28	10	0.7
29	55	0.6
30	47	0.6
31	44	0.8
32	38	0.9
33	30	0.9
34	14	0.4
35	15	0.4
36	7	1.1
37	7	0.3
38	15	0.3
39	7	0.3
40	6	0.3
41	7	0.4
42	9	0.4
43	13	0.4
44	10	0.5
45	7	0.4
46	13	0.4
47	10	0.4
48	10	0.3
49	8	0.4
50	7	0.2

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27-A.

Hole	Depth	% H.M.
51	9	0.3
52	8	0.3
53	8	0.3
54	7	0.3
55	9	0.6

TABLE II

LINE SB 101 - 109

Hole	Depth	Colour	W.T.	%H.M.
101	6½'	Wh	dry	Trace
102	7'	Wh	dry	"
103	10'	Wh	dry	"
104	10'	Wh	5'	"
105	5'	Wh	surf.	"
106	2'	Bl	dry	"
107	2'	Bl	surf.	"
108	2'	Bl	surf.	"
109	2'	Bl	surf.	"

LINE SB101-109

Hole No. 101

0-5'	White sand
5-6½	" "

Hole No. 102

1-5'	White sand

Hole No. 103

1-5'	White sand
5-10'	" "

Hole No. 104

1-5'	White sand
5-10'	White sand and water

Hole No. 105

1-5'	White sand and water

Hole No. 106

1-2'	Black sand

Hole No. 107

1-2'	Black sand and water

Hole No. 108

1-2'	Black sand and water

Hole No. 109

1-2'	Black sand and water

LINE SB6½

Holes at 100' intervals

Zero Point immediately north of Big Lake

Hole No. 0

0-5'	Brown sand and top soil	0.5
5-10'	Brown Sand	0.5

W.T. 5'
Stopped 10' in indunated sand

Hole No. 1

0-5'	Grey sand and top soil	0.3
5-10'	Grey sand	0.6
10-13'	Brown sand (coarse)	1.4

W.T. 1'
Stopped 13' running in

Hole No. 2

0-5'	White sand, top soil and clay	0.3
5-10'	Fine brown sand	0.5
10-13'	Fine brown sand	

W.T. 6'
Stopped 13' indunated sand. Cannot penetrate. Pump only picking up water.

Hole No. 3

0-5'	Topsoil and clay	0.8
5-6'	White sand (G.T.)	2.9

W.T. 3'
Stopped 6'. Clay. Cannot penetrate

Hole No. 4

0-4'6"	Grey sand and top soil	0.5

W.T. 1'
Stopped 4'6" clay. Could not penetrate

Hole No. 5

0-5'	Topsoil, fine sand and clay	1.1

W.T. 2'
Stopped 5' clay. Could not penetrate

Cont'd/

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TABLE III

LINE SB 6½

Hole	Depth	Base	Colour	W.T.	% H.M.
0	10'	I.S.	Br.	5'	0.5
1	13'	S	Gr/Br	1'	0.6
2	13'	I.S.	Wh/Br	6'	0.7
3	6'	Cl	White	3'	1.9
4	4'6"	Cl	Gr	1'	0.5
5	5'	Cl	?	2'	1.1
6	9'	S	Gr	5'	0.8
7	8'	H.S.	Wh/Gr	2'	0.4
8	18'	H.S.	Gr	6'	0.7
9	12'	I.S.	Gr/Wh/Br	7'	0.4
10	8'	I.S.	Wh/Br	7'	0.2
11	7'	I.S.	Wh/Gr/Br	3'	0.4
12	11'	H.S.	Wh/Gr	5'	0.5
13	10'	S	Bl/Wh	5'	0.4
14	7'	S	Wh	5'	0.4
15	5'6"	I.S.	Gr/Wh/Br	4'	0.3
16	8'6"	H.S.	Wh/Gr	6'	0.4
17	14'	Cl	Wh/Gr	6'	0.3
18	18'	I.S.	Wh/Gr	7'	0.6
19	14'6"	S	Wh/Gr	0'	0.5
20	12'	I.S.	Wh/Br	3'	0.6
21	9'	H.S.	Wh/Gr	4'	0.4
22	9'8"	Cl	Wh/Gr	0'	3.9
23	6'	Cl	Gr	0'	0.9
24	8'	I.S.	White	1'	0.4
25	15'	I.S.	Wh/Gr/Br	Dry	0.5
26	7'	I.S.	Gr/Wh/Br	3'	0.3
27	18'	I.S.	Wh/Br	7'	0.6
28	15'	I.S.	White	5'	0.4
29	8'	I.S.	White	3'	0.2
30	12'	I.S.	White	4'	0.5
31	7'	I.S.	White	dry	0.5
32	10'	Cl	White	0'	1.8
33	9'	I.S.	Wh	3'	0.4
34	7'	I.S.	Wh	2'	0.6
35	4'6"	I.S.	?	1'	0.3
36	6'	I.S.	Wh	0'	0.3
37	5'	I.S.	Wh	dry	0.3
38	12'	I.S.	Wh	5'	0.9
39	9'	I.S.	Wh	0'	0.6
40	9'	Cl	Wh	0'	0.7
41	10'	H.S.	Wh	3'	0.5
42	7'	Cl	Wh	0'	0.9
43	7'	Cl	Wh	3'	0.7
44	10'	I.S.	Wh	2'	0.5
45	12'	I.S.	Wh	0'	0.9
46	7'	I.S.	Wh/Br	0'	0.6

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Hole No. 6

0-5'	Fine sand, clay and topsoil	0.4
5-9'	Grey sand	1.2

W.T. 5'
Stopped 9' running in

Hole No. 7

0-5'	White sand and topsoil	0.4
5-8'	Grey Sand	0.3

W.T. 2'
Hard strata at 8'. Stopped, cannot penetrate.

Hole No. 8

0-5'	Grey sand	0.1
5-10'	Grey sand	1.2
10-15'	Grey sand	1.0
15-18'	Coarse brown sand and quartz particles	0.5

S.T. 6'
Stopped 18' hard strata. Pump only picking up water.

Hole No. 9

0-5'	Grey and white sand (G.T.)	0.2
5-10'	White sand	0.4
10-12'	Brown sand	0.6

W.T. 7'
Stopped 12'. Indurated sand

Hole No. 10

0-5'	White sand and topsoil	0.1
5-8'	Brown sand	0.4

W.T. 7'
Stopped at 8' indurated sand

Hole No. 11

0-5'	White and grey sand	0.2
5-7'	Brown sand	0.6

W.T. 3'
Stopped 7' indurated sand

Hole No. 12

0-5'	White and grey sand	0.5
5-10'	Grey sand	0.3
10-11'	Grey sand	0.6

W.T. 5'
Stopped 11' hard strata

Hole No. 13

0-5'	Black sand	0.6
5-10'	White sand	0.3

W.T. 5'
Stopped 10' running in

Hole No. 14

0-5'	White sand	0.3
5-7'	White sand	0.5

W.T. 5'
Stopped 7' running in

Hole No. 15

0-5'	Grey and white sand	0.4
5-5'6"	White and brown sand	0.3

W.T. 4'
Stopped 5'6" hard strata. Indurated sand

Hole No. 16

0-5'	Grey and white sand	0.4
5-8'6"	White and grey sand	0.3

W.T. 6'
Stopped 8'6" hard strata

Hole No. 17

0-5'	White and grey sand	0.5
5-10'	White sand	0.2
10-14'	Coarse brown sand and quartz particles	0.3

W.T. 6'
Stopped 14' clay

Hole No. 18

0-5'	White and grey sand	0.4
5-10'	Grey sand	0.3
10-15'	Coarse sand and quartz particles	1.0
15-18'	Very coarse sand and large quartz particles	0.7

W.T. 7'
Stopped 18'. Ball on pump being continually jammed by large quartz particles.

Hole Nok 19

0-5'	White and grey sand	0.4
5-10'	White and grey sand	0.5

10'-14'6"	White and grey sand	0.7
W.T. 0'		
Stopped 14'6" running in		

Hole No. 20

0-5'	Grey and white sand	0.5
5-10'	Grey and white sand	0.4
10-12'	Brown sand	0.9
W.T. 3'		
Stopped 12' indurated sand		

Hole No. 21

0-5'	White and grey sand	0.5
5-9'	White and grey sand	0.3
W.T. 4'		
Stopped 9' hard strata cannot penetrate		

Hole No. 22

0-5'	White and grey sand	6.5
5-9'8"	Grey sand	1.3
W.T. 0'		
Stopped 9'8" clay		

Hole No. 23

0-5'	Sand and topsoil	0.8
5-6'	Grey sand	1.1
W.T. 0'		
Stopped 6' clay. Could not penetrate		

Hole No. 24

0-5'	White sand and topsoil	0.4
5-8'	White sand	0.4
W.T. 1'		
Stopped 8' hard strata probably indurated sand		

Hole No. 25

0-5'	White and grey sand	0.2
5-10'	White sand	0.4
10-15'	Brown sand	0.9
W.T. 10'		
Stopped 15' indurated sand		

Hole No. 26

0-5'	Grey and white sand	0.2
5-7'	Grey and brown sand	0.4

W.T. 3'
Stopped 7' indurated sand

Hole No. 27

0-5'	White sand	0.1
5-10'	White sand	1.7
10-15'	Brown sand	0.4
15-18'	Brown sand	0.3

W.T. 7'
Stopped 18' indurated sand

Hole No. 28

0-5'	White sand	0.1
5-10'	White sand	0.6
10-15'	White sand	0.5

W.T. 5'
Stopped 15' hard strata. Indurated sand

Hole No. 29

0-5'	White sand	0.2
5-8'	White sand	0.3

W.T. 3'
Stopped hard strata - indurated sand

Hole No. 30

0-5'	White sand	0.4
5-10'	White sand	0.2
10-12'	White sand	1.0

W.T. 4'
Stopped 12' hard strata indurated sand

Hole No. 31

0-5'	White sand	0.9
5-7'	White sand	0.1

Stopped 7' hard strata indurated sand

Hole No. 32

0-5'	White sand	0.4
5-10'	White sand	3.2

W.T. 0'
Stopped 10' Bluestone clay

Hole No. 33

0-5'	White sand	0.4
5-9'	White sand	0.3

W.T. 3'
Stopped 9' indurated sand

Hole no. 34

0-5'	White sand	0.4
5-7'	White sand	0.7

W.T. 2'
Stopped 7' hard strata indurated sand

Hole No. 35

0-4'6"		0.3

W.T. 1'
Stopped 4'6" hard strata indurated sand

Hole No. 36

0-5'	White sand	0.3
5-6'	White sand	0.3

W.T. 0'
Stopped 6' indurated sand

Hole No. 37

0-5'	White sand	0.3

Stopped 5' indurated sand

Hole No. 38

0-5'	White sand	0.6
5-10'	White sand	0.6
10-12'	White sand and large quartz particles	1.5

W.T. 5'
Stopped sitting on hard strata, probably indurated sand

Hole No. 39

0-5'	White sand and topsoil	0.5
5-9'	White sand	0.7

W.T. 0'
Stopped 9' only picking up water. Coring will not penetrate. Large quartz particles in pump.

Hole No. 40

0-5'	White sand	0.4
5-9'	White sand	1.0

W.T. 0'
Stopped 9'. Slow penetrating. Probably clay

Hole No. 41

0-5'	White sand	0.5
5-10'	White sand and traces of clay	0.5

W.T. 3'
Penetration very slow. Abandoned hole at 10'

Hole No. 42

0-5'	White sand	1.1
5-7'	White sand and clay traces	0.8

W.T. 0'
Stopped 7'. Penetration very slow. Clay

Hole No. 43

0-5'	White sand	0.6
5-7'	White sand	0.7

W.T. 3'
Stopped 7' clay

Hole No. 44

0-5'	White sand	0.5
5-10'	White sand	0.5

W.T. 2'
Stopped 10' indurated sand

Hole No. 45

0-5'	White sand	1.3
5-10'	White sand	0.3
10-12'	White sand	1.2

W.T. 0'
Stopped 12' indurated sand. Penetration very slow

Hole No. 46

0-5'	White sand	0.7'
5-7'	Brown sand	0.5

W.T. 0'
Stopped 7' indurated sand

Hole No. 47

0-5'	White sand	2.1
5-9'	Brown sand	0.6

W.T. 1'
Stopped 9' hard strata. Could not penetrate.
Pump only picking up water.

Hole No. 48

0-5'	White sand and loam	0.4
5-10'	White sand	0.4

W.T. 0'
Stopped 10½ indurated sand

Hole No. 49

0-5'	White sand	0.8
5-10'	White sand	0.4

W.T. 1'
Stopped 10½ Coring being stopped by obstacle.
Pump penetrating further than casing.
Abandoned hole.

Hole No. 50

0-5'	White sand	0.5
5-10'	White sand	0.8
10-12'	White sand	0.8

W.T. 2'
Stopped 12' running in.

Hole No. 51

0-5'	White sand		0.9
5-4'	White sand		0.9
Stopped 6' casing will not penetrate indurated sand		(5-10'?	0.3)

Hole No. 52

0-5'	White sand	1.4
5-7'	White sand	1.5
W.T. 2'		
Stopped 7' hard strata. Sands like sitting on rock		

Hole No. 53

0-5'	White sand	0.6
5-6'	White sand	0.8
W.T. 1'		
Stopped 6' bluestone clay		

Hole No. 54

0-5'	White sand	0.4
5-6'	White sand	0.7
W.T. 0'		
stopped 6' Pump only picking up water. Clay.		

Hole No. 55

0-5'	White sand	0.8
5-6'	White sand	0.4
W.T. 5'		
Stopped 6'. Pump only picking up water. Penetration slow.		

Hole No. 56

0-4'	White sand	0.5
W.T. 3'		
Stopped 4' Hard strata. Cannot penetrate		

Hole No. 57

0-5'	White sand	2.0
5-10'	White sand	0.3
10'-14'6"	White sand	0.1
W.T. 7'		
Stopped 14'6" Clay		

Hole No. 58

0-5'	White sand	0.4
5-10'	White sand	0.5
10-15'	White sand	0.7
15-20'	Brown sand	0.3
20-21'	Brown sand	0.2

W.T. 15'
Stopped 21' indurated sand

Hole No. 59

0-5'	White sand	0.3
5-10'	White sand	0.3
10-14'	White sand	0.1

W.T. 12'
Stopped 14' clay. Slow penetration.

Hole No. 60

0-5'	White sand	0.7
5-10'	White sand	0.1
10-15'	White sand	0.1

W.T. 11'
Stopped 15' clay particles in pump.
Penetration slow.

Hole No. 61

0-5'	White sand	1.2

W.T. 1'
Stopped 5' clay.

Hole No. 62

0-4'	White sand	1.9

W.T. 0'
Stopped 4' clay.

Hole No. 63

0-4'	White sand	0.5

W.T. 1'
Stopped 4' indurated sand

Hole No. 64

0-4'6"		1/4

W.T. 1'
Stopped 4'6" indurated sand

Hole No. 65

0-5' White sand 0.9
W.T. 1'
Stopped 5' indurated sand

Hole No. 66

0-5' White sand 0.7
5-6' White sand
W.T. 2'
Stopped 6' indurated sand

Hole No. 67

0-5' White sand 0.1
W.T. 3'
Stopped 5' indurated sand

Hole No. 68

0-4' White sand 0.8
W.T. 2'
Stopped 4' indurated sand

Hole No. 69

0-4' White sand 1.0
W.T. 0'
Stopped 4' indurated sand

Hole No. 70

0-5' White sand 1/0
5-6' Brown sand 1.1
W.T. 1'
Stopped 6' indurated sand

Hole No. 71

0-4'6" 1.2
W.T. 1'
Stopped 4'6" hard strata. Pump only picking up water. Casing will not penetrate. Traces of indurated sand.

Hole No.72

0-5' White sand 0.7
5-7' " " 0.5
W.T. 0'
Stopped 7' indurated sand

Hole No.73

0-5' White sand 0.5
5-7' " " 0.7
W.T. 0'
Stopped 7'. Casing will not penetrate.
Pump only picking up water. Indurated sand

Hole No.74

0-5' White sand 0.8
W.T. 0'
Stopped 5'. Indurated sand

Hole No.75

0-3'6" White sand 0.3
W.T. 0'
Stopped 3'6" Pump only picking up water
Casing will not penetrate. Indurated sand

Hole No.76

9-3' White sand 0.4
W.T. 1'
Stopped 3'. Indurated sand

Hole No.77

0-4' White sand
W.T. 1'
Stopped 4' indurated sand

Hole No.78

0-3'6" White sand 0.5
W.T.1'
Stopped 3'6" Indurated sand

Hole No.79

0-4' White sand 0.9
W.T. 0'
Stopped 4' Indurated sand

Hole No.80

0-3' White sand 0.4
W.T. 1'
Stopped 3'. Pump only picking up water
Cannot penetrate

Hole No.81

0-4'	White sand	0.5
W.T. 1'		
Stopped 4' Indurated sand		

Hole No.82

0-4'	White sand	0.4
Stopped 4' Indurated sand		

End.

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TABLE IV

LINE SB 10½

Hole	Depth	Base	Colour	W.T.	% H.M.
0	7'	H.S.	Br	5'	0.8
2	10'	S	Br	4'	0.5
4	9'	H.S.	Wh	3'	0,2
6	7'	H.S.	Wh/Br	4'	0.2
8	7'	R	Br/Wh	4'	0.2
10	20'6"	R	Wh/Br	19'	0.2
12	23'	R	Wh/Br	12'	0.8
14	12'	H.S.	Wh/Br	10'	0.5
16	19'6"	S	Wh/Br	12'	0.3
18	17'	H.S.	Wh/Br	dry	0.3
20	10'	S	Gr	3'	0.3
22	24'3"	I.S.	Wh/Gr	18'	0.1
24	29'	S	Wh/Gr	25'	<0.1
26	15'	S	Wh/Gr/Br	8'	0.2
28	26'	S	Wh/Gr/Br	24'	0.3
30	14'	S	Wh/Br	11'	0.1
					0-5' ns
32	14'7"	I.S.	Gr/Wh/Br	11'	0.3
34	11'	S	Gr	4'	0.2
36	5'	S	Gr	3'	<0.1
38	13'6"	S	Gr/Wh	10'	0.1
40	10'	S	Gr/Wh	3'	0.2
42	8'	S	Gr/Wh	3'	0.2
44	9'	S	Gr/Wh	4'	0.3
46	13'	S	Wh	8'	0.1
48	14'	Cl	Wh/Br	6'	0.2
50	8'	S	Wh	5'	0.2
52	13'	S	Wh	3'	0.3
54	17'	I.S.	Wh/Br/Bl	4'	0.2
56	14'	Cl	Wh/Br	5'	0.2
58	12'	Cl	Wh/Br	1'	0.3
60	10'	Cl	Wh/Br	2'	0.3
62	7'	S	Wh	dry	0.2
64	7'	I.S.	Wh/Br	2'	0.2
66	18'	S	Wh/Gr	3'	0.3
68	13'	S	Wh/Br	3'	0.3
70	6'	Cl	Gr/Bl/Wh	5'	0.3
72	5'6"	I.S.	Wh/Br	5'	0.2
74	15'	S	Wh/Br	10'	0.2
76	12'	I.S.	Gr	5'	0.4
78	8'	S	Wh	4'	0.4
80	8'	S	Wh	3'	0.2
82	9'	Cl	Wh	3'	0.3
84	8'	Cl	Wh/Gr	3'	0.3
86	7'	H.S.	Wh	3'	0.1
88	7'	Cl	Wh/Gr	3'	0.1
90	6'	H.S.	Wh/Br	3'	0.2
92	6'	H.S.	Wh/Br	3'	0.4
94	4'	Cl	Wh/Gr	3'	0.8
96	4'	I.S.	Wh/Br	3'	0.1

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Hole	Depth	Base	Colour	W.Y.	% H.M.
98	4'	Cl	Wh/Br	3'	0.2
100	4'	Cl	Wh/Br	2'	0/1
102	4'6"	I.S.	Wh	2'	0.2
104	10'	S	Wh	2'	0.5
106	14'	Cl	Wh	8'	0.4
108	7'	I.S.	Wh/Gr/Br	6'	0.3
110	8'	C.R.	Wh/Br	dry	0.7
112	5'6"	C.R.	Wh/Br	8'	0.3
114	4'10"	H.S.	Gr/Wh	3'	0.5
116	7'	S	Wh/Gr	2'	0.6
118	9'	S	Wh	8'	0.4
120	4'	Cl	Wh	4'	0.2
122	3'	Cl	Gr/Wh	dry	<0.01
124	2'	I.S.	Wh/Gr	dry	0.2
126	1'	I.S.	Wh	dry	0.2
128	2'	Cl	Wh	dry	0.2
130	2'	Cl	Wh/Gr	dry	0.1
132	2'6"	Cl	Wh/Gr	dry	0.1

Line SB 10½

Hole No. 0

0-5'	Fine sand and loam	ns
5-7'	Fine brown sand	0.8

W.T. 5'
Stopped 7' water

Hole No.2

0-5'	Fine sand and loam	0.2
5-10'	Fine brown sand	0.8

W.T. 4'
Stopped 10' running in coarse sand and quartz in contaminated sample in pump (N.T.)

Hole No.4

0-5'	Fine whate sand and loam	0.3
5-9'	Fine white sand	<0.1

W.T. 3'
Stopped 9'

Hard strata or rock could not penetrate. Pump only picking up water and casing would not move any further.

Hole No.6

0-5'	Fine white sand and loam	<0.1
5-7'	Fine brown sand	0.4

W.T. 4'
Stopped 7'

Hard strata. Slate like rock particles picked up in pump casing will not penetrate. Pump only picking up water.

Hole No.8

0-5'	Brown sand (fine) and loam	0.3
5-7'	Coarse white sand	<0.1

W.T. 4'

Stopped 7'. Hard strata. Slate like rock. Pump only picking up water.

Hole No.10

0-5'	Fine white sand	0.1
5-10'	Fine Brown and white sand	0.1
10-15'	Fine white and brown sand8	0.2
15-20'	Brown sand	0.2
20-20'6"	Brown sand	0.2

W.T. 19'
Cannot penetrate further. Pump picking up water only

Hole No.12

0-5'	Fine white sand	1.3
5-10'	Fine white sand	1.2
10-15'	Brown sand	0.4
15-20'	Brown sand	1.2
20-23'	Brown sand	0.2

Stopped by slate-like rock at 23'

Hole No.14

0-5'	Fine white sand	0.3
5-10'	Fine white sand	0.5
10-12'	Brown sand	0.8

W.T. 10'
Stopped 12'. Could not penetrate hard strata.

Hole No.16

0-5'	White sand	0.2
5-10'	White sand	0.3
10-15'	Brown sand	0.6
15-19'6"	Brown sand	<0.1

W.T. 12'
Stopped 19'6" Running in

Hole No.18

0-5'	White and brown sand	0.2
5-10'	Brown sand	0.2
15-17'	Brown sand	0.5
15-17'	Brown sand and shell	0.2

Stopped 17' hard strata cannot penetrate with casing or pump

Hole No.20

0-5'	Grey sand and loam	<0.1
5-10'	Grey sand	0.5

W.T. 3'
Stopped 10' run in

Hole No.22

0-5'	White sand	0.1
5-10'	White sand	<0.1
10'-15'	White and Indurated sand	<0.1
15-20'	Grey sand	0.1
20-24'3"	Grey sand	<0.1

W.T. 18'

Hole No.24

0-5'	White sand	<0.01
5-10'	" "	<0.1
10-15'	Grey sand	<0.1
15-20'	Grey sand	<0.01
20-25	Grey sand	<0.1
20-29'	Coarse sand and quartz	<0.2

Stopped 29' run in

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Hole No. 26

0-5'	White sand	< 0.1
5-10'	Grey sand	< 0.1
10-15'	Brown sand	0.3

Stopped 15' run in

Hole No. 28

0-5'	White sand	0.4
5-10'	White sand	< 0.1
10-15'	White and grey sand	0.3
15-201	Grey sand	< 0.1
20-25'	Grey sand	< 0.1
25-26'	Brown sand	0.7

Stopped 26' run in

Line SB10½ Hole No. 30

0-5'	White sand	< 0.1
5-10'	White sand	< 0.1
10-14'	Brown sand	0.2

Stopped 14' run in

Hole No. 32

0-5'	Grey sand	n.s.
5-10'	White brown sand	< 0.1
10-14'7"	Indurated sand	0.5

Stopped 14'7" Indurated sand cannot penetrate

Hole No. 34

0-5'	Grey sand and loam	< 0.01
5-10'	Grey sand	0.4
10-11'	Grey sand	0.2

Stopped 11' run in

Hole No. 36

0-5'	Grey sand	< 0.1
	W.T. 3'	

Stopped 5' 4' run in

Hole No. 38

0-5'	Grey sand	0.1
5-10'	White sand	0.1
10-13'6"	White sand	0.2

W.T. 10'

Stopped 13' 6" Running in.

Hole No. 40

0-5'	Grey sand	0.2
5-10'	White sand	0.2

W.T. 3'
Stopped 10' Running in

Hole No. 42

0-5'	Grey sand	0.2
5-8'	White sand	0.1

W.T. 3'
Stopped 8' Running in

Hole No. 44

0-5'	Grey sand	0.2
5-9'	White sand	0.3

W.T. 4'
Stopped 9' Running in

Hole No. 46

0-5'	White sand	0.2
5-10'	White sand	0.1
10-13'	White sand	0.1

W.T. 8'
Stopped 13' Running in

Hole No. 48

0-5'	White sand	0.2
5-10'	White sand	0.1
10-14'	Brown sand and clay	0.2

W.T. 6'
Stopped 14' pump sticking, slow penetration

Hole No. 50

0-5'	White sand	0.1
5-8'	White sand	0.3

W.T. 5'
Stopped 8' running in

Hole No. 52

0-5'	White sand	0.2
5-10'	White sand	0.4
10-13'	White sand	0.2

W.T. 3'
Stopped 13' Running in.

Hole No. 54

0-5'	White sand	0.1
5-10'	White sand	0.2
10-15'	Brown and black sand	0.1
15-17'	Brown and black sand	0.2

W.T. 4'
Stopped 17' Indurated sand

Hole No. 56

0-5'	White sand	0.1
5-10'	Brown sand	0.3
10-14'	Brown sand	0.4

W.T. 5'
Stopped 14' Clay. Pump still sticking.

Hole No. 58

0-5'	White sand	<0.1
5-10'	Brown and white sand	0.3
10-12'	Brown and white sand	0.6

W.T. 1'
Stopped 12' clay. Pump continually sticking.

Hole No. 60

0-5'	White sand	0.2
5-10'	Brown and white sand & clay particles	0.4

W.T. 2'
Stopped 10' clay. Pump only picking up water.

Hole No. 62

0-5'	White sand	0.2
5-7'	White sand	0.2

Stopped 7' Running in

Hole No. 64

0-5'	White sand	0.1
5-7'	White and brown sand	0.2

W.T. 2'
Stopped 7' Indurated sand
Sample raised towards 6' pump picking up pieces of indurated sand.

Hole No. 66

0-5'	White sand	<0.1
5-10'	Grey sand	0.4
10-15'	Grey sand	0.4
15-18'	Grey sand	0.2

W.T. 3'
Stopped 18' Running in

Hole No. 68

0-5'	White sand	0.2
5-10'	Brown sand	0.4
10-13'	Brown sand	0.3

W.T. 3'
Stopped 13' Running in

Hole No. 70

0-5'	Grey and Black sand	0.2
5-6'	White sand	0.3

W.T. 5'
Stopped 6'. Clay. Coring will not penetrate. Pump sticking and only picking up water.

Hole No. 72

0-5'	White sand	0.1
5' -5'6"	Brown sand	0.3

W.T. 5'
Stopped 5'6" in indurated sand

Hole No. 74

0-5'	White sand	0.2
5-10'	White sand	0.1
10-15'	Brown sand	0.4

W.T. 10'
Stopped 15' Running in

Hole No. 76

0-5'	Red sand probably due to ironstone content.	0.7
5-10'	Grey sand	0.2
10-12'	Dark grey sand	0.2

W.T. 5'
Stopped 12' Indurated sand

Hole No. 78

0-5'	White sand	0.3
5-8'	Very coarse sand & large quartz particles	0.5

W.T. 4'
Stopped 8' Quartz.

Hole No. 80

0-5'	White sand	0.1
5-8'	Coarse sand & large particles.	0.2

W.T. 3'
Stopped 8' Quartz

Hole No. 82

0-5'	White sand	0.2
5-9'	White sand	0.5

W.T. 3'
Stopped 9' Bluestone Clay

Hole No. 84

0-5'	White and grey sand	0.1
5-8'	Grey sand	0.5

W.T. 3'
Stopped 8' Bluestone clay

Hole No. 86

0-5'	White sand	0.1
5-7'	White sand	0.1

W.T. 3'
Stopped 7' Hand strata

Hole No. 88

0-5'	White sand	0.1
5-7'	Grey sand	0.1

W.T. 3'
Stopped 7' Clay.

Hole No. 90

0-8'	White sand	0.1
5-6'	Brown sand	0.3

W.T. 3'
Stopped 6' Hand strata

Hole No. 92

0-5'	White Sand	0.2
5-6'	Light Brown sand	0.7

W.T. 3'
Stopped 6' Hand strata

Hole No. 94

0-4'	White and grey sand	0.8

W.T. 3'
Stopped 4' Clay

Hole No. 96

0-4'	White and brown sand	0.1

W.T. 3'
Stopped 4' Indurated sand.

Hole No. 98

0-4'	White and brown sand	0.2

W.T. 3'
Stopped 4' Clay

Hole No. 100

0-4'	White and brown sand	0.1

W.T. 2'
Stopped 4' clay

Hole No. 102

0-4'6"	White sand	0.2

W.T. 2'
Stopped 4'6" Indurated sand

Hole No. 104

0-8'	White sand	0.3
5-10'	Coarse sand and quartz particles	0.7

W.T. 2'
Stopped 10' Quartz

Hole No. 106

0-5'	White sand	0.3
5-10'	White sand	0.4
10-14'	White sand	0.5

W.T. 8'
Stopped 14' Clay

Hole No. 108

0-5'	White sand	0.4
5-7'	Grey and brown sand	0.2

W.T. 6'
Stopped 7' Indurated sand

Hole No. 110

0-5'	White sand	0.6
5-8'	Brown sand	0.9

Stopped 8' Coffee rock

Hole No. 112

0-5'	White sand	0.4
5-5'6"	Brown sand	0.3

W.T. 5'
Stopped 5'6" Coffee rock

Hole No. 114

0-4'10"	Grey and white sand	0.5

W.T. 3'
Stopped 4'10" Hand strata

Hole No. 116

0-5'	White sand	0.7
5-7'	Grey sand	0.5

W.T. 2'
Stopped 7' Running in

Hole No. 118

0-5'	White sand	0.5
5-9'	White sand	0.4

W.T. 8'
Stopped 9' Running in

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Hole No. 120

0-4'	White sand	0.2
W.T. 4'		
Stopped 4'	Bluestone clay	

Hole No. 122

0-3'	Grey and white sand	<0.01
Stopped 3'	Clay	

Hole No. 124

0-2'	White and grey sand	0.2
Stopped 2'	Indurated sand.	

Hole No. 126

0-1'	White sand	0.2
Stopped 1'	Indurated clay	

Hole No. 128

0-2'	White sand	0.2
Stopped 2'	Bluestone clay	

Hole No. 130

0-2'	White and grey sand	0.1
Stopped 2'	Bluestone clay.	

Hole No. 132

0-2'6"	white and grey sand	0.1

TABLE V

LINE SBM

Hole	Depth	Base	Colour	W.T.	%H.M.
0	12'	S	Y	8'	0.4
1	27'	S	Y	20'	0.3
2	53'	Cl	Y	53'	0.4
3	59'	Cl	Y	59'	0.5
4	55'	Cl	Y	55'	0.8
6	30'	Cl	Y/Br	29'	0.9
8	21'	Cl	Y	20'	0.4
10	19'	Cl	Y/Gr	19'	0.3
12	38'	Cl	Y/Gr	38'	0.2
14	38'	Cl	Y/Gr/Br	38'	0.3
16	39'	S	Y/Gr	dry	0.3
18	38'	S	Y	38'	0.8
20	25'	S	Y	25'	0.3
22	42'	S	Y	42'	0.6
24	46'	S	Y	dry	0.7
26	25'	S	Y	dry	0.6
28	50'	S	Y/Gr	dry	0.3
30	30'	S	Y	30'	0.3

LINE SBM

Hole No. 0

0-5'	Yellow Sand	0.3
5-10'	Yellow sand	0.3
10-13'	Yellow sand	0.2

W.T. 8'
Stopped 13' Running in

Hole No.1

0-5'	Yellow sand	0.5
5-10'	" "	0.3
10-15'	" "	0.3
15-20'	" "	0.3
20-25'	" "	0.3
25-27'	" "	0.4

W.T. 20'
Stopped 27' Running in

Hole No. 2

0-5'	Yellow sand	0.4
5-10'	" "	0.3
10-15'	" "	0.2
15-20'	" "	0.1
20-25'	" "	0.5
25-30'	" "	0.5
30-35'	" "	0.6
35-40'	" "	0.6
40-45'	" "	0.5
45-50'	" "	0.5
50-53'	" "	0.4

W.T. 53'

Hole No.3

0-5'	Yellow sand	0.7
5-10'	" "	0.5
10-15'	" "	0.5
15-20'	" "	0.5
20-25'	" "	0.1
25-30'	" "	0.5
30-35'	" "	0.3
35-40'	" "	0.3
40-45'	" "	0.6
45-50'	" "	0.4
50-55'	" "	0.7
55-59'	" "	0.5

W.T. 59'

Hole No.4

0-5'	Yellow sand	1.0
5-10'	" "	0.5
10-15'	" "	0.2
15-20'	" "	0.6
20-25'	" "	1.0
25-30'	" "	0.3
30-35'	" "	1.1
35-40'	" "	1.2
40-45'	" "	1.1
45-50'	" "	0.6
50-55'	" "	0.9

Hole No.6

0-5'	Yellow sand	0.6
5-10'	" "	1.4
10-15'	" "	0.7
15-20'	" "	1.3
20-25'	" "	0.8
W.T. 29'		
25-30'	Yellow and brown sand and clay particales (T)	0.4
Stopped 30'	Coring will not penetrate. Pump sticking in clay.	

Hole No.8

0-5'	Yellow sand	0.4
5-10'	" "	0.3
10-15'	" "	0.4
15-20'	" "	0.5
20-21'	" "	0.5
W.T. 20'		
Stopped 21'	Clay	

Hole No. 10

0-5'	Grey and yellow sand	0.2
5-10'	Yellow sand	0.2
10-15'	Yellow sand	0.5
15-19'	Yellow sand	0.2
Stopped 19'	Clay	

Hole No. 12

0-5'	Yellow and grey sand	0.2
5-10'	Yellow sand	0.2
10-15'	" "	0.4
15-20'	" "	0.2
20-25'	" "	0.1
25-30'	" "	0.1
30-35'	" "	0.3
35-38'	" "	0.4
W.T. 38'		

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Hole No. 14

0-5'	Yellow and grey sand	0.2
5-10'	Yellow sand	0.3
10-15'	" "	0.3
15-20'	" "	0.1
20-25'	" "	0.2
25-30'	" "	0.2
30-35'	" "	0.3
35-38'	Yellow and brown sand	0.5

W.T. 38'

Hole No. 16

0-5'	Yellow and grey sand	0.2
5-10'	Yellow sand	0.3
10-15'	" "	0.3
15-20'	" "	0.4
20-25'	" "	0.2
25-30'	" "	0.1
30-35'	" "	0.1
35-39'	" "	0.4

Stopped 39' running in

Hole No. 18

0-5'	Yellow sand and loam	0.6
5-10'	" "	0.1
10-15'	" "	0.6
15-20'	" "	0.3
20-25'	" "	0.5
25-30'	" "	1.2
30-35'	" "	0.3
35-38'	" "	0.6

W.T. 38'

Hole No. 20

0-5'	Yellow sand	0.3
5-10'	" "	0.4
10-15'	" "	0.2
15-20'	" "	0.3
20-25'	" "	0.4

25' W. T.

Hole No. 22

0-5'	Yellow sand	0.2
5-10'	" "	0.8
10-15'	" "	0.2
15-20'	" "	0.3
20-25'	" "	0.2
25-30'	" "	0.3
30-35'	" "	2.2
35-40'	" "	0.4
40-42'	" "	1.0

W.T. 42'

Hole No. 24

0-5'	Yellow sand	0.5
5-10'	" "	1.2
10-15'	" "	0.3
15-20'	" "	0.6
20-25'	" "	0.6
25-30'	" "	1.3
30-35'	" "	0.6
35-40'	" "	0.8
40-45'	" "	1.0
45-46'	" "	0.5

Stopped 46' Running in

Hole No. 26

0-5'	Yellow sand	0.7
5-10'	" "	0.4
10-15'	" "	0.9
15-20'	" "	0.6
20-25'	" "	0.5

Dry Hole
Stopped 25' Running in

Hole No. 28

0-5'	Yellow and grey sand	0.5
5-10'	Yellow sand	1.0
10-15'	" "	0.6
15-20'	" "	0.7
20-25'	" "	0.3
25-30'	" "	0.2
30-35'	" "	0.4
35-40'	" "	0.1
40-45'	" "	0.1
45-50'	" "	0.1

Dry hole
Stopped 50' Running in

Hole No. 30

0-5'	Yellow sand	0.3
5-10'	" "	0.3
10-15'	" "	0.6
15-20'	" "	0.2
20-25'	" "	0.3
25-30'	" "	0.1

W.T. 30'

TABLE VI

LINE YR

Hole	Depth	% H.M.
1		0.5
2	20'	0.3
3	15'	0.3
4	23'	0.5
5	17'	0.2
6		
7	25'	0.3
8	20'	0.4
9	25'	0.8
10	9'	0.3
11	8'	0.4
12	7'	0.7
13		
14	5'	0.2
15		
16	4'	0.2
17		
18		
19	5'	ns
20	5'	ns
21		
22	5'	0.3
23	7'	0.3
24	15'	0.7
25	25'	0.5
24	20'	0.4
27	25'	0.5
28	10'	0.5
29	15'	0.2

TABLE VII

LINE R

Hole	Depth	Base	Colour	W.T.	% H.M.
101	20'	Cl	Br/Y	dry	<0.1
102	20'	Cl	Y	dry	<0.1
103	20'	Cl	Br/Y	dry	<0.1
104	20'	Cl	Br/Y/Wh	dry	<0.1
105	20'	Cl	Br/Y	dry	<0.1
106	20'	Cl	Gr/Y	dry	<0.1
107	20'	Cl	Br/Y	dry	<0.1
108	20'	Cl	Br/Y	dry	<0.1
109	20'	Cl	Gr/Y	20'	<0.1
110	7'	Cl	Br	7'	<0.1
111	3'	Cl	Br/Bl	3'	<0.1
112	5'	Cl		2'	<0.1
113	5'	Cl		4'	<0.1
114	5'	Cl		4'	<0.1
115	5'	Cl		4'	<0.1
116	5'	Cl		4'	<0.1
117	5'	Cl		4'	<0.1
118	4'	R		dry	<0.1
119	4'	R		dry	<0.1
120	2'	R		dry	<0.1
121	4'	Cl		dry	<0.1
122	4'	Cl		dry	<0.1
123	4'	Cl		dry	<0.1
124	4'	W	Wh	4'	<0.1
125	4'	Cl		4'	<0.1
126	4'	Cl		dry	<0.1
127	4'	W		4'	<0.1
128	3'	Cl		dry	<0.1
129	3'	Cl		dry	<0.1
130	3'	Cl		dry	<0.1

LINE R 101-130

Hole No. 101

1-5'	Brown sand	< 0.1%
5-10'	Yellow sand	< 0.1%
10-15'	" "	< 0.1%
15-10'	" "	< 0.1%

Hole No. 102

1-5'	Hard par.	< 0.1%
5-10'	Yellow sand	< 0.1%
10-15'	" "	< 0.1%
15-20'	" "	< 0.1%

Hole No. 103

1-5'	Brown sand	< 0.1%
5-10'	Hard par.	< 0.1%
10-15'	Yellow sand	< 0.1%
15-20'	" "	< 0.1%

Hole No. 104

1-5'	Brown sand	< 0.1%
5-10'	" "	< 0.1%
10-15'	Yellow sand	< 0.1%
15-20'	White sand	< 0.1%

Hole No. 105

1-5'	Hard par.	< 0.1%
5-10'	Light brown sand	< 0.1%
10-15'	Yellow sand	< 0.1%
15-20'	" "	< 0.1%

Line No. 106

1-5'	Grey sand	< 0.1%
5-10'	Hard par. and sand	< 0.1%
10-15'	Clay	< 0.1%
15-20'	Yellow sand	< 0.1%

Hole No. 107

1-5'	Brown sand	< 0.1%
5-10'	" "	< 0.1%
10-15'	Yellow sand	< 0.1%
15-20'	" "	< 0.1%

Hole No. 108

1-5'	Brown sand	< 0.1%
5-10'	hit rock - drilled	< 0.1%
10-15'	Yellow sand	< 0.1%
15-20'	" "	< 0.1%

Hole No. 109

1-5'	Grey sand	< 0.1%
5-10'	Yellow sand	< 0.1%
10-15'	" "	< 0.1%
15-20'	Sand and water	< 0.1%

Hole No. 110

1-5'	Brown sand	< 0.1%
5-7'	Hit water	< 0.1%

Hole No. 111

1-3'	Hit water, black, brown sand	< 0.1%

Hole No. 112

1-5'	Hit water at 2'	< 0.1%

Hole No. 113

1-5'	Clay and water at 4'	< 0.1%

Hole No. 114

1-5'	Clay and water at 4'	< 0.1%

Hole No. 115

1-5'	Clay and stone at 4'	< 0.1%

Hole No. 116

0-5'	Clay and stone at 4'	< 0.1%

Hole No. 117

1-5'	Clay and gravel at 4'	< 0.1%

Hole No. 118

1-4'	Hit stone at 4'	< 0.1%

Hole No. 119

1-4'	Hit stone at 4'	< 0.1%

Hole No. 120

1-2'	Hit stone at 2'	< 0.1%

Hole No. 121

1-4'	Clay and stone at 2'	< 0.1%

Hole No. 122

1-4'	Clay and stone at 4'	< 0.1%

LINE R 101-130

Hole No. 123

1-4'	Clay and mud at 4'	< 0.1%

Hole No. 124

1-4'	White sand and water	< 0.1%

Hole No. 125

1-4'	Fine clay and water at 4'	< 0.1%

Hole No. 126

1-4'	Hard pan and clay	< 0.1%

Hole No. 127

1-4'	Hard pan and water	< 0.1%

Hole No. 128

1-3'	Hard pan and clay	< 0.1%

Hole No. 129

1-3'	Hard pan and clay	< 0.1%

Hole No. 130

1-3'	Hard pan and clay	< 0.1%

TABLE VIII

LINE YRI

Hole	Depth	Base	Colour	W.T.	% H.M.
0	13'	Cl	Y	9'	0.8
2	24'	Cl	Y/Wh	20'	0.4
4	23'	Cl	Y/Gr	1'	0.4
6	17'	Cl	Y/Wh	15'	0.5
8	13'	Cl	Y/Wh	10'	0.4
10	21'	Cl	Y/Gr		0.5
12	7'	Cl	White		0.2
14	4'2"	R			0.8
16	15'	R	Y/Br		0.2
					5-10' NS
18	23'	H.S.	Y		0.4
					0-5' NS
20	12'	H.S.	Y		0.3
22	12'	Cl	Y/Gr		0.4
24	4'	Cl	Y		0.2
26	4¾'	Cl	Y		N.S.
28	5'	Cl	White	4'	0.2
30	18'	H.S.	Y		0.4
					5-10' NS
32	10'	S	Y	2'	0.2
34	8'	S	Y	8'	0.3
36	18'	H.S.	Gr/Y		0.5
38	60'	R	Y		0.4
					10-15') NS
					20-25')
40	60'		Y	50	0.4
42	33'	Cl	Y		0.4
44	50'		Y		0.4
46	60'		Y		0.5
					35-40') NS
					40-45')
48	60'		Y		1.1
50	27'	R	Y		0.4
52	43'	R	Y		0.5
54	36'		Y	36'	0.6
56	33'	Cl	Y	30'	0.4
58	45'		Y		0.4

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LINE YR 1

Hole No. 0

0-5'	Yellow sand and topsoil	0.3
5-10'	" "	1.8
10-13'	" " and clay	1.2

W. T. 9'
Heavy concentration
Stopped 13' clay

HOLE No. 2

0-5'	Yellow sand and topsoil	0.3
5-10'	" "	0.1
10-15'	" "	0.4
15-20'	" "	0.4
20-24'	Coarse white sand and quartz particles	0.9

W. T. 20'
Stopped 24' clay
Heavy concentration

Hole No. 4

0-5'	Yellow sand and topsoil	0.5
5-10'	" "	0.5
10-15'	Grey sand and clay	0.4
15-20'	" " "	0.3
20-23'	" " "	0.2

W. T. 1'
Stopped 23' Bluestone clay

Hole No. 6

0-5'	Yellow sand and topsoil	0.6
5-10'	" "	0.3
10-15'	" " and clay	0.2
15-17'	White sand and clay	0.3

W. T. 15'
Stopped 17' Bluestone clay

Hole No. 8

0-5'	Fine yellow sand and topsoil	0.6
5-10'	" " "	0.3
10-13'	Fine white sand and clay	0.3

W. T. 10'
Stopped 13' clay
Heavy concentration

Hole No. 10

0-5'	Fine yellow sand and topsoil	0.3
5-10'	" " "	0.3
10-15'	" " "	0.2
15-20'	Fine grey sand	0.7
20-21'	Fine grey sand and clay	0.4

Stopped 21' clay

Hole No. 12

0-5'	White sand and clay	0.3
5-7'	Bluestone clay	0.1

Clay continuing on past 7'
Abandoned

Hole No. 14

0-4'6"	Sand and topsoil and clay	0.8

Stopped 4'6" strata type rock.
Tested the area around the peg in an approx. 6' square.
Rock at 4-5' depth.

Hole No. 16

0-5'	Yellow sand and topsoil	<0.1
5-10'	Yellow sand	0.4
10-15'	Brown sand	0.1

Stopped 15' rock

Hole No. 18

0-5'	Yellow sand	0.6
5-10'	" "	n.s.
10-15'	" "	0.4
15-20'	Yellow sand and clay	0.2
20-23'	Coarse sand and quartz	

Stopped 23' Hard strata

Hole No. 20

0-5'	Yellow sand	n.s.
5-10'	" "	0.3
10-12'	" "	0.3

Stopped 12' Hard strata

Hole No. 22

0-5'	Yellow sand and topsoil	0.2
5-10'	Yellow and grey sand	0.4
10-12'	Grey sand and bluestone clay	0.5

Stopped 12' Bluestone clay

Hole No. 24

0-4'	Yellow sand and bluestone clay	0.2
Stopped 4' bluestone clay		

Hole No. 26

0-4¾'	Yellow sand	
Stopped 4¾' bluestone clay		

Hole No. 28

0-5'	White sand and topsoil	0.2
W.T.	4'	
Stopped 5' Bluestone clay		

Hole No. 30

0-5'	Yellow sand and topsoil	0.2
5-10'	" "	0.2
10-15'	" "	n.s.
15-18'	" "	0.4
Stopped 18' Hard strata		

Hole No. 32

0-5'	Yellow sand and topsoil	0.2
5-10'	Yellow sand	n.s.
W.T.	2'	

Hole No. 34

0-5'	Yellow sand and topsoil	0.3
5-8'	Yellow sand	0.3
W. T. 8'		

Hole No. 36

0-5'	Grey sand and topsoil	0.5
5-10'	Yellow sand	0.4
10-15'	" "	0.5
15-18'	" "	0.6
Stopped 18'	Hard strata	

Hole No. 38

0-5'	Yellow sand	0.5
5-10'	" "	0.5
10-15'	" "	0.4
15-20'	" "	0.3
20-25'	" "	0.2
25-30'	" "	0.7

30-35'	Yellow sand	0.5
35-40'	" "	0.4
40-45'	" "	0.3
45-50'	" "	0.5
50-55'	" "	0.2
55-60'	" "	0.4
Stopped 60'	Sandstone	

Hole No. 40

0-5'	Yellow sand	0.5
5-10'	" "	0.5
10-15'	" "	n.s.
15-20'	" "	0.4
20-25'	" "	n.s.
25-30'	" "	0.3
30-35'	" "	0.3
35-40'	" "	0.2
40-45'	" "	0.8
45-50'	" "	0.3
50-55'	" "	0.3
55-60'	" "	0.7
WT 60'		

Hole No. 42

0-5'	Fine sand and clay	0.2
5-10'	Yellow sand	0.4
10-15'	" "	0.4
15-20'	" "	0.4
20-25'	" "	0.3
25-27'	" "	0.5
27-33'	Clay (not sampled)	
Stopped 33'	Bluestone clay	

Hole No. 44

0-5'	Yellow sand	0.2
5-10'	" "	0.5
10-18'	" "	0.1
15-20'	" "	0.5
20-25'	" "	0.5
25-30'	" "	0.9
30-35'	" "	0.4
35-40'	" "	0.5
40-45'	" "	0.2
45-50'	" "	0.7

Hole No. 46

0-5'	Yellow sand	0.4
5-10'	" "	0.4
10-15'	" "	1.3
15-20'	" "	0.7
20-25'	" "	0.8

25-30'	Yellow sand	0.8
30-35'	" "	0.2
35-40'	" "	0.2
40-45'	" "	0.3
45-50'	" "	0.2
50-55'	" "	0.4
55-60'	" "	0.8

Hole No. 48

0-5'	Yellow sand	0.4
5-10'	" "	0.3
10-15'	" "	0.6
15-20'	" "	0.5
20-25'	" "	1.0
25-30'	" "	0.2
30-35'	" "	2.7
35-40'	" "	n.s.
40-45'	" "	n.s.
45-60'	" "	0.5
50-55'	" "	4.2
55-60'	" "	0.6

Hole No. 50

0-5'	Yellow sand and loam	0.1
5-10'	Yellow sand	0.4
10-15'	" "	0.3
15-20'	" "	0.3
20-25'	" "	0.8
25-27'	" " and ironstone	0.3

Stopped 27' Ironstone

Hole No. 52

0-5'	Yellow sand	0.3
5-10'	" "	0.1
10-15'	" "	0.5
15-20'	" "	1.0
20-25'	" "	0.3
25-30'	" "	0.7
30-35'	" "	0.8
35-40'	" "	0.2
40-43'	" "	0.7

Stopped 43' Sandstone

Hole No. 54

0-5'	Yellow sand and loam	0.1
5-10'	" "	0.4
10-15'	" "	0.4
15-20'	" "	0.6
20-25'	" "	1.3
25-30'	" "	0.6
30-35'	" "	0.3
35-36'	" "	0.8

W.T. 36'

Hole No. 56

0-5'	Yellow sand and loam	0.5
5-10'	" "	0.6
10-15'	" "	0.2
15-20'	" "	0.3
20-25'	" "	0.3
25-30'	" "	0.4
30-33'	" " and clay	0.6
W.T. 30'		

Hole No. 58

0-5'	Yellow sand	0.3
5-10'	" "	0.4
10-15'	" "	0.4
15-20'	" "	0.3
20-25'	" "	0.3
25-30'	" "	0.8
30-35'	" "	0.2
35-40'	" "	0.6
40-45'	" "	0.2

TABLE IX

LINE 6

Hole	Depth	Base	Colour	W.T.	% H.M.
0	7'	CR	Gr	3	61.7
30	10	H.S.	Br	5	60.4
60	13	CR	Gr/Br	13	62.1
90	$10\frac{3}{4}$	HS	Gr/Br	5	72.7
120	11	R	Gr/Wh	5	87.8
150	9	R	Gr/Bl	4	95.1
180	$8\frac{1}{2}$	CR	Gr/Wh/Br	5	35.0
210	19	CR	Wh/Gr	15	1.9

LINE 6

Hole No. 0

0-5'	Grey sand	59.7
5-7'	" "	66.7
W. T.	3'	

Stopped at 7' - Coffee rock

Hole No. 30

0-5'	Brown sand	62.4
5-10'	" "	58.4
W. T.	5'	

Stopped at 10' - Rock (hard strata)

Hole No. 60

0-5'	Grey sand	59.7
5-10'	Grey sand	80.2
10-13'	Brown sand	47.3
W. T.	13'	

Stopped 13' in Coffee rock

Hole No. 90

0-5'	Grey sand	64.9
5-10'	Grey sand	76.1
10 - 10'8"	Brown sand	94.9
W. T.	5'	

Stopped 10'8" - Hard strata rock

Hole No. 120

0-5'	Grey and white sand	87.8
5-10'	" "	89.2
10-11'	" "	79.6
W. T.	5'	

Stopped at 11' - Rock

Hole No. 150

		94.5
0-5'	Grey and white sand	~~10.8~~
5-8½'	Grey and brown sand	~~69.3~~
W. T.	5'	96.9

Stopped 8½' - Coffee rock

Hole No. 180

0-5'	Grey and white sand	13.3
5-8½'	Grey and brown sand	68.3
W. T.	5'	

Stopped 8½' - Coffee Rock

Hole No. 210

0-5'	White sand	1.4
5-10'	Grey sand	2.0
10-15'	Grey and white sand	3.4
15-19'	" "	1.0
W. T.	15'	

Stopped 19' - Coffee Rock

TABLE X

LINE 10

Hole	Depth	Base	Colour	W.T.	% H.M.
0	6'	C.R.	Gr	$2\frac{1}{2}$	42.3
30	7'	I.S.	Bl/Br	$4\frac{1}{2}$	44.7
60	12'	I.S.	Gr/Br	6	50.3
90	9'	C.R.	Bl/Gr	4	84.9
120	9'	C.R.	Gr	5	78.1
150	6'	I.S.	Bl/Br	3	86.5
180	7'	C.R.	Wh/Gr	5	0.6
210	19'	H.S.	Wh/Br	15	0.8

LINE 10

Hole No. 0

0-5'	Grey sand	44.8
5-6'	" "	36.2
W. T.	$2\frac{1}{2}$'	

Stopped 6' - Coffee Rock

Hole No. 30

0-5'	Black and brown sand	40.8
5-7'	Indurated sand	48.6
W. T.	$4\frac{1}{2}$'	

Stopped 7' - Ind. Sand

Hole No. 60

0-5'	Grey sand	43.4
5-10'	Brown sand	48.0
10-12'	Indurated sand	72.9
W. T.	6'	

Stopped 12' - Indurated sand

Hole No. 90

0-5'	Black sand	79.9
5-9'	Grey sand	91.0
W. T.	4'	

Stopped 9' - Coffee Rock

Hole No. 120

0-5'	Grey sand	64.4
5-9'	Grey sand	95.2
W. T.	5'	

Stopped 9' - Coffee Rock

Hole No. 150

0-5'	Black sand	87.6
5-6'	Brown sand	81.7
W. T.	3'	

Stopped 6' - Indurated sand

Hole No. 180

0-5'	White sand	0.5
5-7'	Grey sand	0.8
W. T.	5'	

Stopped 7' - Coffee rock

Hole No. 210

0-5'	White sand	0.7
5-10'	White sand	0.4
10-15'	White sand	1.1
15-19'	Brown sand	0.9
W. T.	15'	

Stopped 19' - Hard strata

TABLE XI

LINE 14

Hole	Depth	Base	Colour	W.T.	% H.M.
0	8'	C.R.	Bl/Gr/Br	3'	36.6
30	9½	C.R.	Gr	6'	46.3
60	12	C.R.	Gr/Br	8'	75.0
90	12	CR.	Gr/Br	7'	68.3
120	14	C.R.	Br/Gr	9'	26.6
150	13	CR	Br	9'	3.1
180	10	CR	Gr/Br	6'	0.7

LINE 14

Hole No. 0

0-5'	Black and grey sand	18.0
5-8'	Brown sand	67.6
W.T.	3'	

Stopped 8' - Hard strata - coffee rock

Hole No. 30

0-5'	Grey sand	45.6
5-9½'	Grey sand	47.1
W.T.	6'	

Stopped 9½' - Coffee rock

Hole No. 60

0-5'	Grey sand	76.4
5-10'	Brown sand	74.8
10-12'	" "	72.2
W.T.	8'	

Stopped 12' - Coffee rock

Hole No. 90

0-5'	Grey sand	48.5
5-10'	Brown sand	88.9
10-12'	" "	66.4
W.T.	7'	

Stopped 12' - Coffee rock

Hole No. 120

0-5'	Brown sand	0.5
5-10'	" "	14.9
10-14'	Grey sand	73.6
W.T.	9'	

Stopped 14' - Coffee rock

Hole No. 150

0-5'	Brown sand	0.6
5-10'	" "	3.8
10-13'	" "	6.1
W.T.	9'	

Stopped 13' - Coffee rock

Hole No. 180

0-5'	Grey sand	1.1
5-10'	Brown sand	0.2
W.T.	6'	

Stopped 10' - Coffee rock

TABLE XII

LINE 18

Hole	Depth	Base	Colour	W.T.	% H.M.
0	7	C.R.	Br/Bl	$3\frac{1}{2}$	31.0
30	$8\frac{1}{2}$	C.R.	Gr/Br	5	40.2
60	9	H.S.	Gr/Br	5	42.7
90	8	C.R.	Gr/Br	4	68.2
120	8	C.R.	Gr	5	38.4
150	15	H.S.	Gr/Wh/Br	11	4.0 10-15' ns

LINE 18

Hole No. 0

0-5'	Black and brown sand	57.9
5-7'	Brown sand	4.2
W. T.	$3\frac{1}{2}$'	

Stopped 7' - Coffee rock

Hole No. 30

0-5'	Grey sand	43.9
5-$8\frac{1}{2}$'	Brown sand	35.0
W. T.	5'	

Stopped $8\frac{1}{2}$' - Coffee rock

Hole No. 60

0-5'	Grey and Brown sand	25.8
5-9'	Brown sand	63.4
W. T.	5'	

Stopped 9' - Hard strata - coffee rock

Hole No. 90

0-5'	Grey sand	66.1
5-8'	Brown sand	71.8
W. T.	4'	

Stopped 8' Hard strata - Coffee rock

Hole No. 120

0-5'	Grey sand	9.0
5-8'	" "	87.6
W. T.	5'	

Stopped 8' - Hard strata - Coffee rock

Hole No. 150

0-5'	Grey sand	6.6
5-10'	White sand	1.4
10-15'	Brown sand	n. s.
W. T.	11'	

Stopped 15' - Hard strata

TABLE XIII

LINE 22

Hole	Depth	Base	Colour	W.T.	% H.M.
0	7	CR	Gr/Br	3	13.4
30	9	CR	Gr/Br	5	44.0
60	14	CR	Gr/Br	$4\frac{1}{2}$	20.3
90	13	S	Gr/Br	4	50.4
120	14	S	Gr/Bl	6	28.0
150	18	CR	Gr/Br	13	2.9

LINE 22

Hole No. 0

0-5'	Grey sand	17.3
5-7'	Brown sand	9.6
W.T.	3'	

Stopped 7' - Coffee rock

Hole No. 30

0-5'	Grey sand	29.8
5-9'	Brown sand	61.6
W.T.	5'	

Stopped 9' - Coffee rock

Hole No. 60

0-5'	Grey sand	20.5
5-10'	Brown sand	19.3
10-14'	Brown sand	23.0
W.T.	4½'	

Stopped 14' - Hard strata, coffee rock

Hole No. 90

0-5'	Grey sand	40.9
5-10'	Brown sand	57.6
10-13'	Brown sand	54.5
W.T.	4'	

Stopped 13' = running in

Hole No. 120

0-5'	Grey sand	6.2
5-10'	Dark grey sand	39.9
10-14'	Black sand	40.5
W.T.	6'	

Stopped 14' - running in

Hole No. 150

0-5'	Grey sand	0.7
5-10'	Dark grey sand	8.4
10-15'	Grey sand	1.2
15-18'	Brown sand	1.4
W.T.	13'	

Stopped 18' - Hard strata, coffee rock

TABLE XIV

LINE 26

Hole	Depth	Base	Colour	W.T.	% H.M.
0	7	CR	Br	3	10.6
30	13	S	Br/Gr	9	23.2
60	12	CR	Gr/Br/Bl	7	31.8
90	9	CR	Gr/Bl	5	54.6
120	7	CL	Gr	5	60.6
150	13	CR	Gr/Wh/Br	10	2.6

LINE 26

Hole No. 0

0-5'	Brown sand	12.5
5-7'	" "	5.8
W. T.	3'	

Stopped 7' - Coffee rock

Hole No. 30

0-5'	Brown sand	22.1
5-10'	Brown sand	23.6
10-13'	Grey sand	24.1
W. T.	9'	

Stopped 13' - running in

Hole No. 60

0-5'	Grey sand	17.1
5-10'	Brown sand	31.6
10-12'	Black sand	69.9
W. T.	7'	

Stopped 12' Hard strata, coffee rock

Hole No. 90

0-5'	Grey sand	29.5
5-9'	Black sand	85.8
W. T.	5'	

Stopped 9' Hard strata, Coffee rock

Hole No. 120

0-5'	Grey sand	60.1
5-7'	Grey sand	61.6
W. T.	5'	

Stopped 7' - Clay

Hole No. 150

0-5'	Grey sand	4.5
5-10'	White sand	2.2
10-13'	Brown sand	0.6
W. T.	10'	

Stopped 13' - Coffee rock

TABLE XV

LINE 31

Hole	Depth	Base	Colour	W.T.	% H.M.
0	1	CR	Gr/Br	0	35.2
30	13½	CR	Wh/Br	5	9.2
90	7	S	Gr	1½	18.0
120	10	CR	Gr/Br	3	57.9
150	8	CR	Gr/Bl/Br	3	0-5' ns 40.8
180	7	CL	Gr/Wh	7	13.4

LINE 31

Hole No. 0

0-1'	Grey brown sand	35.2

Stopped 1' - coffee rock
W. T. 0'

Hole No. 30

0-5'	White sand	4.0
5-10'	Brown sand	11.0
10-13½'	Brown sand	14.0

W. T. 5'
Stopped 13½' - Coffee rock

Hole No. 90

0-5'	Grey sand	17.0
5-7'	Grey sand	20.5

W. T. 1½'
Stopped 7' - running in

Hole No. 120

0-5'	Grey sand	n.s.
5-10'	Grey and brown sand	57.9

W. T. 3'
Stopped 10' - Hard strata, coffee rock

Hole No. 150

0-5'	Grey and black sand	23.3
5-8'	Grey and brown sand	69.7

W. T. 3'
Stopped 8' - Hard strata - Coffee rock

Hole No. 180

0-5'	Grey and white sand	17.0
5-7'	Grey sand	4.7

W. T. 7'
Stopped 7' - Clay

TABLE XVI

LINE 35

Hole	Depth	Base	Colour	W.T.	% H.M.
0	6	CR	Br/Bl	3	14.6
30	$6\frac{1}{2}$	CR	Wh/Br	5	4.4
60	10	HS	Wh/Gr/Br	5	12.8
90	10	S	Gr/Br	5	5.1
120	9	S	Gr	6	16.5
150	7	CR	Gr/Br	5	34.5
180	15	S	Gr/Br	6	3.0

LINE 35

Hole No. 0

0-5'	Brown and black sand	13.5
5-6'	Brown sand	20.4
W. T.	3'	

Stopped 6' - Coffee rock

Hole No. 30

0-5'	White sand	2.9
5-6½'	Brown sand	9.7
W. T.	5'	

Stopped 6½' - Coffee rock

Hole No. 60

0-5'	White and grey sand	12.1
5-10'	Brown sand	13.4
W. T.	5'	

Stopped 10' - Hard strata, ind. sand

Hole No. 90

0-5'	Grey sand	0.6
5-10'	Brown and grey sand	9.6
W. T.	5'	

Stopped 10' - running in

Hole No. 120

0-5'	Grey sand	14.6
5-9'	Grey sand	18.9
W. T.	6'	

Stopped 9' - running in

Hole No. 150

0-5'	Grey sand	22.1
5-7'	Brown sand	65.5
W. T.	5'	

Stopped 7' - Hard strata - Coffee rock

Hole No. 180

0-5'	Grey sand	1.6
5-10'	Grey sand	7.0
10-15'	Brown sand	0.5
W. T.	6'	

Stopped 15' - running in

TABLE XVII

LINE 51

Hole	Depth	Base	Colour	W.T.	% H.M.
125	17	S	Wh/Br	14	1.4
225	24	CR	Wh/Br	23	0.8
325	13½	CR	Wh/br	13	0.5
375	13	R	Wh/Br	10	1.5
425	19	S	Gr/Bl/Br	8	0.7
525	14½	S	Gr/Wh	8	0.5
625	10	S	Bl/Gr	5	0.5
625	10	R	Wh/Br	dry	1.2
725	3	S	Bl	0	1.0
825	14	S	Wh/Gr	2	0.8
875	6	R	Br	4	2.0
925	1	Cl	Gr	0	0.2
1025	10	S	Gr	3	0.8
1125	7	R	Bl/Br	4	1.8
1125	16	I/S	Wh/Gr	3	4.0
1225	10	S	Wh/Gr	5	1.0
1325	5	S	Wh	3	1.3
1375	9½	Cl	Br	6	9.1
1425	10	S	Wh	4	1.0
1525	14	H.S.	Wh/Gr	9½	0.8
1625	17	H.S.	Wh	14½	5.2
1625	10	Cl	Wh/Bl/Y	dry	8.5
1725	13½	CR	Wh/Gr	7	3.1
1825	9½	S	Bl/Gr	3	2.5
1925	14½	CR	Wh/Br	dry	2.8
2025	17	HS	Wh/Br	15	3.4
2125	20	H.S.	Wh/Br	16	1.0
2225	17	I.S.	Wh/Gr	16	0.9
2325	18½	CR	Wh/Gr	dry	0.8
2425	14½	CR	Wh	12	5.1
2525	14	CR	Wh	13	1.0
2625	13	CR	Gr/Wh	11	1.2
2725	13	H.S.	Gr/Wh	10	5.2
2825	10	CR	Gr	dry	0.8
2925	7	CR	Wh	4	0.7
3025	4¾	H.S.	Wh	3½	0.7
3125	5	H.S.	Wh	3	10.0
3225	7	S	Wh/Gr	1	1.0
3325	4½	H.S.	Gr	dry	0.8
3425	5	I.S.	Gr	1	0.9
3525	5	H.S.	Gr	3	1.4
3625	7	H.S.	Wh	3	0.9
3725	7	H.S.	Wh	3	7.6
3825	4	R	Wh	4	2.8
3925	5	H.S.	Gr	5	1.2

Hole No. 125

0-5'	White sand	2.8
5-10'	White sand	0.9
10-15'	Brown sand	1.9
15-17'	Brown sand	0.3
W. T.	14'	

Stopped 17' - running in

Hole No. 225

0-5'	White sand	0.3
5-10'	White sand	2.2
10-15'	Brown sand	0.1
15-20'	Brown sand	0.2
20-24'	Brown sand	0.3
W. T.	23'	

Stopped 24' - Coffee rock

Hole No. 325

0-5'	F. white sand	0.7
5-10'	F. white sand	0.4
10-13½'	White and brown sand	0.4
W. T.	13'	

Stopped 13½' - Hard strata, coffee rock

Hole No. 375

0-5'	White sand	1.4
5-10'	Brown sand	0.9
10-13'	Brown sand	2.5
W. T.	10'	

Stopped 13' - Rock

Hole No. 425

0-5'	Grey and black sand	1.3
5-10'	White sand	0.9
10-15'	Grey sand	0.4
10-19'	Brown sand	0.2
W. T.	8'	

Stopped 19' - running in

Hole No. 525

0-5'	Grey sand	0.5
5-10'	White sand	0.4
10-14½'	White sand	0.6
W. T.	8'	

Stopped 14½' - running in

Hole No. 625 (15/7/69)

0-5'	Black sand	0.4
5-10'	Grey sand	0.6
W. T.	5'	

Stopped 10' - running in

LINE 51

Hole No. 625 (26/5/69)

0-5'	White sand	1.3
5-10'	Brown sand	1.0

Stopped 10' - rock

Hole No. 725

0-3'	Black sand	1.0

Stopped 3' - running in W.T. 0'

Hole No. 825

0-5'	White sand and topsoil	0.8
5-10'	Grey sand	0.8
10-14'	Grey sand	0.8
W.T.	2'	

Stopped 14' - running in

Hole No. 875

0-5'	Sand and loam	0.4
5-6'	Brown sand	10.0
W.T.	4'	

Stopped 6' - rock

Hole No. 925

0-1'	Grey sand and clay	0.2
W.T.	0'	

Stopped - hole in billabong

Hole No. 1025

0-5'	Grey sand	0.7
5-10'	Grey sand	0.9
W.T.	3'	

Stopped 10' - running in

Hole No. 1125

0-5'	Black sand	1.5
5-7'	Brown sand	2.9
W.T.	4'	

Stopped 7' - rock

Hole No. 1125

0-5'	White sand	1.3
5-10'	Grey sand	4.8
10-15'	Grey sand	5.0
15-16'	'	4.2
W.T.	3'	

Stopped 16' - indurated sand

LINE 51

Hole No. 1225

0-5'	White sand	1.2
5-10'	Grey sand	0.8
W. T.	5'	

Stopped 10' - running in

Hole No. 1325

0-5'	White sand	1.3
W. T.	3'	

Stopped 5' - running in

Hole No. 1375

0-5'	Yellow sand	1.2
5-9½'	Brown sand	17.1
W. T.	6'	

Stopped @ 9½' in clay

Hole No. 1425

0-5'	White sand	1.2
5-10'	White sand	0.7
W. T.	4'	

Stopped 10' - running in

Hole No. 1525

0-5'	White and grey sand	0.8
5-10'	White sand	0.8
10-14'	Grey sand	0.6
W. T.	9½'	

Stopped 14' - Hard strata

Hole No. 1625

0-5'	White sand	1.5
5-10'	" "	6.8
10-15'	" "	1.4
15-17'	" "	17.5
W. T.	14½'	

Stopped 17' - Hard strata, coffee rock

Hole No. 1625

0-5'	White and yellow sand	0.9
5-7'	Black and yellow sand	27.6
7-10'	Clay	(Assume no sample)

Stopped 10' - Continuing clay

Hole No. 1725

0-5'	White and grey sand	0.5
5-10'	White sand	1.4
10-13½'	Grey sand	8.1
W. T.	7'	

Stopped 13½', Hard strata, coffee rock

Hole No. 1825

0-5'	Black sand	1.1
5-9½'	Grey sand	4.0

Stopped 9½' - running in. W.T. 3'

Hole No. 1925

0-5'	White sand	6.0
5-10'	White sand	1.4
10-14½'	Brown sand	1.0

Stopped 14½' - Hard strata, coffee rock

Hole No. 2025

0-5'	White sand	1.2
5-10'	" "	7.3
10-15'	" "	1.4
15-17'	Brown sand	0.9
W.T.	15'	

Stopped 17' in Hard strata

Hole No. 2125

0-5'	White sand	1.0/5.7 (2 assays shown)
5-10'	White sand	0.9
10-15'	" "	1.0
15-20'	Brown sand	1.0
W.T.	16'	

Stopped 20' - Hard strata

Hole No. 2225

0-5'	White sand	0.7
5-10'	White sand	0.6/0.8
10-15'	White sand	0.6
15-17'	Grey sand	1.8
W.T.	16'	

Stopped 17' - ind. sand

Hole No. 2325

0-5'	White sand	0.7
5-10'	White sand	1.5
10-15'	White sand	0.6
15-18½'	Grey sand	0.3

Stopped 18½' - Coffee rock

Hole No. 2425

0-5'	White sand	9.0
5-10'	White sand	5.0
10-14½'	White sand	1.1
W.T.	12'	

Stopped 14½' - Coffee rock

Hole No. 2525

0-5'	White sand	0.7/0.9
5-10'	" "	0.9
10-14'	" "	1.4

Stopped 14' - Hard strata, coffee rock

Hole No. 2625

0-5'	Grey sand	1.2
5-10'	White sand	1.0
10-13'	" "	1.4
W.T.	11'	

Stopped 13' - Coffee rock

Hole No. 2725

0-5'	Grey sand	1.0
5-10'	White sand	11.9
10-13'	Grey sand	2.7

Stopped 13' - Hard strata

Hole No. 2825

0-5'	Grey sand	1.0
5-10'	" "	0.6

Stopped 10' - Hard strata, coffee rock

Hole No. 2925

0-5'	White sand	0.7
5-7'	White sand	0.7
W.T.	4'	

Stopped 7' - Hard strata, coffee rock

Hole No. 3025

0-4'-8"	White sand	0.7
W.T.	$3\frac{1}{2}$'	

Stopped for hard strata

Hole No. 3125

0-5'	White sand	10.0
W.T.	3'	

Stopped 5' - hard strata

Hole No. 3225

0-5'	White sand	1.1
5-7	Grey sand	0.9

Stopped 7' running in. W.T. 1'

LINE 51

Hole No. 3325

0-4½'	Grey sand	0.8

Stopped 4½' - Hard strata

Hole No. 3425

0-5'	Grey sand	0.9
W. T.	1'	

Stopped 5' - Ind. sand

Hole No. 3525

0-5'	Grey sand	
W. T.	3'	1.4

Stopped 5' - Hard strata

Hole No. 3625

0-5'	White sand	0.9
5-7	White sand	0.8
W. T.	3'	

Stopped 7' - Hard strata

Hole No. 3725

0-5'	White sand	10.3
5-7'	White sand	0.7
W. T.	3'	

Stopped 7' - Hard strata

Hole No. 3825

0-4	White sand	2.8
W. T.	4'	

Stopped 4' - probably rock from road construction 8 ft. away.

Hole No. 3925

0-5'	Grey sand and clay	1.2
W. T.	5'	

Stopped 5' - Hard strata.

TABLE XVIII

LINE 67

Hole	Depth	Base	Colour	W.T.	% H.M.
150	5	C.R.	Gr	4	0.8
250	20	I.S.	Gr/Wh	15	0.5
350	$4\frac{1}{2}$	I.S.	Gr	$4\frac{1}{2}$	0.7
450	$6\frac{1}{2}$	I.S.	Gr/Br	3	0.6
550	6	Cl	Gr	3	0.6
650	7	S	Gr/Wh	5	0.5
750	13	S	Gr/Wh	10	0.8
					10-13 ns
850	13	Cl	Gr/Wh/Br	10	0.3
					0-5 ns
					5-10 ns
950	9	Cl	Wh	6	0.5
1050	$8\frac{1}{2}$	Cl	Wh	$4\frac{1}{2}$	1.1
1150	5	S	Gr	4	1.9
1250	4	Cl	Wh	3	0.5
1350	7	S	Wh	3	0.5
1450	8	Cl	Wh	3	0.5
1550	6	CR	Wh	?	0.5
1650	5	CR	Wh	5	1.2
1750	$5\frac{1}{2}$	?	Wh/gr	5	0.7
1850	6	I.S.	Wh/Gr	5	0.7
1950	$5\frac{1}{2}$	I.S.	Wh/Gr	?	0.6
2050	5	H.S.	Wh	3	1.1
2150	4	H.S.	Wh	0	0.5
2250	$4\frac{1}{2}$	I.S.	Wh	0	0.3
2350	4	Cl	Wh	0	0.3
2459	6	I.S.	Wh	2	0.7
2550	$4\frac{1}{2}$	S	Wh	3	0.9
2650	$7\frac{1}{2}$	I.S.	Wh	2	0.8
2716	6	Cl	Wh	2	0.6

LINE 67

Hole No. 150

0-5'	Grey sand	0.8
W.T.	4'	

Stopped 5' - Coffee rock

Hole No. 250

0-5'	Grey sand	0.7
5-10'	White sand	0.2
10-15'	" "	0.2
15-20'	Grey sand	0.3
W.T.	15'	

Stopped 20' Ind. sand

Hole No. 350

0-4½'	Grey sand	0.7
W.T.	4'4"	

Stopped 4½' - Ind. sand

Hole No. 450

0-5'	Grey sand	0.5
5-6½'	Brown sand	0.7
W.T.	3'	

Stopped 6½' - Ind. sand

Hole No. 550

0-5'	Grey sand	0.5
5-6'	" "	0.7
W.T.	3'	

Stopped 6' - Clay

Hole No. 650

0-5'	Grey sand	0.4
5-7'	White sand	0.5
W.T.	5'	

Stopped 7' - running in

Hole No. 750

0-5'	Grey sand	0.6
5-10'	White sand	1.1
10-13'	White sand	n.s.
W.T.	10'	

Stopped 13' - running in

Hole No. 850

0-5'	Grey sand	n.s.
5-10'	White sand	n.s.
10-13'	Brown sand	0.3
W.T.	10'	

Stopped 13' - Clay

LINE 67

Hole No. 950

0-5'	White sand	0.5
5-9'	" "	0.6
W. T.	6'	
Stopped 9' - clay		

Hole No. 1050

0-5'	White sand	0.3
5-8½'	" "	1.9
W. T.	4½'	
Stopped 8½' - clay		

Hole No. 1150

0-5'	Grey sand and top soil	1.9
W. T.	4'	
Stopped 5' - running in		

Hole No. 1250

0-4'	White sand	0.5
W. T.	3'	
Stopped 4' - clay		

Hole No. 1350

0-5'	White sand	0.5
5-7'	" "	0.4
W. T.	3'	
Stopped 7' - running in		

Hole No. 1450

0-5'	White sand	0.6
5-8'	" "	0.3
W. T.	3'	
Stopped 8' - clay		

Hole No. 1550

0-5'	White sand	0.6
5-6'	" "	0.3
Stopped 6' - coffee rock		

Hole No. 1650

0-5'	White sand	1.2
W. T.	5'	
Stopped 5' - coffee rock		

Hole No. 1750

0-5'	White and Grey sand	0.8
5-5½'	White sand	0.2
W. T.	5'	
Stopped 5½'		

LINE 67

Hole No. 1850

0-5'	White and grey sand	0.9
5-6'	White sand	0.5
W. T.	5'	

Stopped 6' Indur. sand

Hole No. 1950

0-5'	White and grey sand	0.6
5-5½'	White sand	0.5

Stopped 5½' Indur. sand

Hole No. 2050

0-5'	White sand	1.1
W. T.	3'	

Stopped 5' - Hard strata.

Hole No. 2150

0-4'	White sand	0.5
W. T.	0'	

Stopped 4' - Hard strata

Hole No. 2250

0-4½'	White sand	0.3
W. T.	0'	

Stopped 4½' - Indur. sand

Hole No. 2350

0-4'	White sand	0.3
W. T.	0'	

Stopped 4' - clay

Hole No. 2450

0-5'	White sand	0.9
5-6'	White sand	0.6
W. T.	2'	

Stopped 6' - Indur sand.

Hole No. 2550

0-4½'	White sand	0.9
W T.	3'	

Stopped 4½' running in

Hole No. 2650

0-5'	White sand	0.9
5-7½'	" "	0.7
W. T.	2'	

Stopped 7½' - Indur sand.

Hole No. 2716

0-5'	White sand	0.8
5-6'	White sand	0.5
W. T.	2'	

Stopped 6' - clay

TABLE XIX

LINE 83

Hole	Depth	Base	Colour	W.T.	% H.M.
150	8	CR	Y/Wh	7	1.5
250	15	I.S.	Wh/Br	14	0.7
350	7	CR	Wh	5	1.0
450	8	CR	Wh	4	0.5
550	4	Cl		0	0.5
650	$9\frac{1}{2}$	S	Bl/Wh	2	0.6
750	12	S	Bl/Wh	3	0.5
850	8	H.S.	Wh	2	0.4
950	5	I.S.	Wh/Br	1	0.6
1050	9	I.S.	Br	2	0.8
1150	8	S	Br	2	1.3
1250	9	S	Wh/Br	2	2.5
1350	13	I.S.	Br/Wh	2	0.6
					$5\text{-}10^{1}$ ns
1450	12	I.S.	Wh	0	0.6
1550	10	S	Wh	2	0.9
1650	9	S	Wh	1	1.1
1750	7	H.S.	Bl/Wh	2	1.3
1850	8	S	Wh	1	2.2
1950	12	Cl	Bl/Wh	2	2.1
2050	10	Cl	Wh	5	1.5
					$5\text{-}10^{1}$ ns
2150	8	S	Wh/Br	0	2.0
2250	10	Cl	Bl/Br	3	1.3

TABLE XIX

LINE 83

Hole	Depth	Base	Colour	W.T.	% H.M.
150	8	CR	Y/Wh	7	1.5
250	15	I.S.	Wh/Br	14	0.7
350	7	CR	Wh	5	1.0
450	8	CR	Wh	4	0.5
550	4	Cl		0	0.5
650	$9\frac{1}{2}$	S	Bl/Wh	2	0.6
750	12	S	Bl/Wh	3	0.5
850	8	H.S.	Wh	2	0.4
950	5	I.S.	Wh/Br	1	0.6
1050	9	I.S.	Br	2	0.8
1150	8	S	Br	2	1.3
1250	9	S	Wh/Br	2	2.5
1350	13	I.S.	Br/Wh	2	0.6
					$5\text{-}10^{1}$ ns
1450	12	I.S.	Wh	0	0.6
1550	10	S	Wh	2	0.9
1650	9	S	Wh	1	1.1
1750	7	H.S.	Bl/Wh	2	1.3
1850	8	S	Wh	1	2.2
1950	12	Cl	Bl/Wh	2	2.1
2050	10	Cl	Wh	5	1.5
					$5\text{-}10^{1}$ ns
2150	8	S	Wh/Br	0	2.0
2250	10	Cl	Bl/Br	3	1.3

LINE 83

Hole No. 150

0-5'	Yellow and white sand	0.6
5-8'	White sand	2.6
W.T. 7'		
Stopped 8' - Coffee rock		

Hole No. 250

0-5'	White sand	1.0
5-10'	" "	0.5
10-15'	Brown sand	
W.T. 14'		
Stopped 15' - Ind. sand		

Hole No. 350

0-5'	White sand	1.0
5-7'	White sand	0.9
W.T. 5'		
Stopped 7' - Hard strata, coffee rock		

Hole No. 450

0-5'	White sand	0.5
5-8'	" "	0.5
W.T. 4'		
Stopped 8' - coffee rock		

Hole No. 550

0-4'	Sand and topsoil	0.5
W.T. 0'		
Stopped 4' in Clay		

Hole No. 650

0-5'	Black sand	0.7
5-9½'	White sand	0.5
W.T. 2'		
Stopped 9½' - running in		

Hole No. 750

0-5'	White sand	0.4
5-10'	White sand	0.6
10-12'	White sand	
W.T. 3'		
Stopped 12' - running in		

Hole No. 850

0-5'	White sand	0.6
5-8'	Brown sand	0.3
W.T. 2'		
Stopped 8' - Hard strata		

LINE 83

Hole No. 950

0-5'	Brown sand	0.6
W.T.	1'	

Stopped 5' - Ind. sand

Hole No. 1050

0-5'	White sand	1.2
5-9'	Brown sand	0.4
W.T.	2'	

Stopped 9' - Hard strata, Ind sand.

Hole No. 1150

0-5'	Brown sand	1.7
5-8'	Brown sand	0.8
W.T.	2'	

Stopped 8' - running in

Hole No. 1250

0-5'	White and Brown sand	3.4
5-9'	Brown sand	1.6
W.T.	2'	

Stopped 9' - running in

Hole No. 1350

0-5'	Brown sand	0.6
5-10'	Brown and white sand	n.s.
10-13'	White sand	0.7

Stopped 13' - Hard strata, ind. sand.

Hole No. 1450

0-5'	White sand	1.0
5-10'	White sand	0.5
10-12'	White sand	0.5
W.T.	0'	

Stopped 12' - Hard strata, Ind. sand

Hole No. 1550

0-5'	White sand	0.5
5-10'	White sand	1.2
W.T.	2'	

Stopped 10' - running in

Hole No. 1650

0-5'	White sand	0.5
5-9'	White sand	1.8

Stopped 9' - running in

Hole No. 1750

0-5'	Black sand	1.1
5-7'	White sand	1.8
W.T.	2'	

Stopped 7' - Hard strata

LINE 83

027105

Hole No. 1850

0-5'	White sand	1.7
5-8'	White sand	2.9
W.T.	1'	

Stopped 8' - running in

Hole No. 1950

0-5'	Black and white sand	1.7
5-10'	White sand	2.2
10-12'	White sand	2.3
W.T.	2'	

Stopped 12' - clay

Hole No. 2050

0-5'	White and Grey sand	1.5
5-10'	White sand	n.s.
W.T.	5'	

Stopped 10' - clay

Hole No. 2150

0-5'	White sand	2.2
5-8'	Brown sand	1.7
W.T.	0'	

Stopped 8' - running in

Hole No. 2250

0-5'	Black sand	1.5
5-10'	Brown sand W.T. 3'	1.1

Stopped 10' - Clay

TABLE XX

LINE 99

Hole	Depth	Base	Colour	W.T.	% H.M.
150	5'	Cl	Wh	3'	2.2
250	20'	IS	Wh/Gr/Br	17'	0.3
350	12'	CR	Wh/Br	6'	0.2
450	9'	S	Wh	3'	0.3
550	12'	HS	Br	3'	0.2
650	8'	S	Wh	3'	0.1
750	13'	S	Wh	2'	0.2
850	7'	IS	Wh	3'	0.3
950	8'	S	Wh	0'	0.5
1050	7'	IS	Wh	3'	0.4
1150	7'	IS	Wh	3'	1.3
1250	9'	S	Wh	3'	0.2
1350	7'	IS + CL	Wh/Br	3'	0.3
1450	4'	Cl	Gr	2'	0.2
1550	8'	S	Gr	5'	0.2
1650	9'	IS	Wh/Br	5'	0.2
1750	4'6"	IS	Gr	0'	0.1
1850	4'	HS	Wh	2'	0.7
1950	5'	HS	Gr	3'	0.1
2001	4'	IS	Wh	2'	0.5

LINE 99

Hole No. 150

0-5'	White sand	2.2
W. T.	3'	

Stopped 5' Clay

Hole No. 250

0-5'	White and grey sand	0.2
5-10'	Brown sand	0.3
10-15'	" "	0.4
15-20'	" "	0.2
W. T.	17'	

Stopped 20' - Rod penetrating indurated sand

Hole No. 350

0-5'	White sand	0.3
5-10'	" "	<0.1
10-12'	Brown sand	0.1
W. T.	6'	

Stopped 12' - Coffee rock

Hole No. 450

0-5'	White sand	0.3
5-9'	" "	0.3
W. T.	3'	

Stopped 9' - running in

Hole No. 550

0-5'	Brown sand	0.3
5-10'	" "	0.3
10-12'	" "	0.1
W. T.	3'	

Stopped 12' Hard strata. Not penetrating.

Hole No. 650

0-5'	White sand	<0.1
5-8'	" "	0.2
W. T.	3'	

Stopped 8' - running in

Hole No. 750

0-5'	White sand	0.3
5-10'	" "	0.2
10-13'	" "	0.2
W. T.	2'	

Stopped at 13' running in.

Hole No. 850

0-5'	White sand	0.3
5-7'	" "	0.3
W. T.	3'	

Stopped 7'. Hard strata. Could not penetrate. Indurated sand.

Hole No. 950

0-5'	White sand	0.4
5-8'	" "	0.7
W. T.	0'	

Stopped 8' - running in

Hole No. 1050

0-5'	White sand	0.5
5-7'	" "	0.3
W. T.	3'	

Stopped 7' - Hard strata - cannot penetrate - indurated.

Hole No. 1150

0-5'	White sand	1.3
5-7'	" "	1.3
N. T.	3'	

Stopped 7' - Hard strata. Indurated sand.

Hole No. 1250

0-5'	White sand	0.3
5-9'	" "	< 0.1
W. T.	3'	

Stopped 9' - running in

Hole No. 1350

0-5'	White sand	0.2
5-7'	Brown sand	0.4
W. T.	3'	

Stopped 7' - indurated sand and Gaes of clay

Hole No. 1450

0-4'	Grey sand	0.2
W. T.	2'	

Stopped 4' - clay

Hole No. 1550

0-5'	Grey sand	0.1
5-8'	" "	0.3
W. T.	5'	

Stopped 8' - running in

Hole No. 1650

0-5'	White sand	0.1
5-9'	Brown sand	0.2
W. T.	5'	

Stopped 9' - Indurated sand

Hole No. 1750

0-4'6"	Grey sand	0.1
W. T.	0'	

Stopped 4'6" - indurated sand.

LINE 99

Hole No. 1850

0-4'	White sand	0.7
W.T.	2'	

Stopped 4' - Hard strata. Casing will not penetrate

Hole No. 1950

0-5'	Grey sand	0.1
W.T.	3'	

Stopped 5' Hard strata. Casing will not penetrate

Hole No. 2001

0-4'	White sand	0.5
W.T.	2'	

Stopped 4' - Hard strata - casing will not penetrate, indurated sand

TABLE XX1

LINE 115

Hole	Depth	% H. M.
1025	10'	> 0. 1
1075	15'	> 0. 1
1125	20'	> 0. 1
1175	75'	> 0. 1
1225	22'	> 0. 1
1325	20'	> 0. 1
1425	10'	> 0. 1
1525	15'	> 0. 1
1625	15'	> 0. 1
1725	30'	> 0. 1
1825	25'	> 0. 1
1925	20'	> 0. 1
2025	20'	> 0. 1
2125	20'	> 0. 7
2225	25'	0. 2
2325	10'	0. 2
2425	8'	0. 2
2525	15'	1. 4

TABLE XXII

LINE 131

Hole	Depth	Base	Colour	W.T.	%H.M.
0	13'	S.	Y/Gr/Br	10'	0.3
1	17'	H.S.	Wh/Y/Gr/Br	16'	0.1
2	14½'	H.S.	Wh/Br		0.2
3	11'	H.S.	Wh		0.3
4	14'	H.S.	Gr/Wh/Br	10'	0.1
5	15'	H.S.	Gr/Wh	11'	0.1
6	15'	S.	Gr/Wh/Br	11½'	0.1
7	16'	S.	Gr/Wh/Br	13'	0.1
8	13'	H.S.	Wh/Gr	11'	0.1
9	6'	H.S.	Br	3'	0.1
10	25'	S.	Wh/Gr	22'	0.3
11	24'	S.	Wh/Gr	23'	0.2
12	20'	S.	Wh/Gr	16'	0.3
13	5'	S.	Wh	5'	0.3
14	4'	S.	Wh/Gr	2'	0.3

Line completed to the Lagoon

LINE 131

Hole No.0

0-5'	Yellow and grey sand	0.1
5-10'	Brown sand	0.2
10-13'	Brown sand	
W.T. 10'		
Stopped 13'.	Running in	

Hole No.1

0-5'	White and grey sand	0.1
5-10'	Grey sand	0.1
10-15'	Brown sand	0.1
15-17'	Coarse brown sand	0.1
W.T. 16'		
Stopped 17'.	Hard Strata	

Hole No.2

0-5'	White sand	0.3
5-10'	White sand	0.1
10-14½'	Brown sand	0.1
W.T.		
Stopped 14½'.	Hard Strata	

Hole No.3

0-5'	White sand	0.5
5-10'	White sand	0.3
10-11'	Coarse sand and quartz	0.1
Stopped 11' by large quartz particles		

Hole No.4

0-5'	Grey sand	0.2
5-10'	White sand	0.1
10-14'	Coarse brown sand and quartz	0.1
W.T. 10'		
Stopped 14'.	Casing will not penetrate	

Hole No.5

0-5'	Grey and white sand	0.1
5-10'	White sand	0.1
10-15'	Coarse sand and quartz	0.1
W.T. 11'		
Stopped 15' coarse quartz particles		

Hole No.6

0-5'	Grey sand	0.1
5-10'	White sand	0.1
10-15'	Brown sand	0.2
W.T.	11½'	
Stopped 15'.	Running in	

Hole No.7

0-5'	Grey sand	0.2
5-10'	White sand	0.1
10-15'	Brown sand	0.2
15-16'	Brown sand	0.1
W.T.	13'	
Stopped 16'		

Hole No.8

0-5'	White and grey sand	0.2
5-10'	White sand	0.1
10-13'	Coarse sand and quartz	0.1
W.T.	11'	
Stopped 13'		

Hole No.9

0-5'	Brown sand	0.1
5-6'	Very coarse sand and quartz	0.1
W.T.	3'	
Stopped 6' - Large pieces of quartz		

Hole No.10

0-5'	White and grey sand	0.3
5-10'	White sand	0.4
10-15'	White sand	0.3
15-20'	White sand	0.2
20-25'	White sand	0.3
W.T.	22'	
Stopped 25'.	Running in	

Hole No.11

0-5'	White and grey sand	0.2
5-10'	White sand	0.2
10-15'	White sand	0.3
15-20'	White sand	0.3
20-24'	White sand	0.2
W.T.	23'	
Stopped 24'.	Running in	

Hole No.12

0-5'	White and grey sand	0.2
5-10'	White sand	0.3
10-15'	White sand	0.4
15-20'	White sand	0.3

W.T. 16'
Stopped 20'. Running in.

Hole No.13

0-5'	White sand	0.3

W.T. 5'
Stopped 5'. Running in.

Hole No.14

0-4'	White and grey sand	0.3

W.T. 2'
Stopped 4'. Running in

Line completed to the Lagoon

TABLE XXIII

LINE 147

Hole	Depth	Base	Colour	W.T.	%H.M.
0	14'	C.R.	Gr/Br/Wh	12'	2.1
1	21'	H.S.	Gr/Wh	20'	0.1
2	9'	H.S.	Gr/Br	4'	0.1
3	7'	S.	Wh/Br	4'	< 0.1
4	4'	S.	Wh	2'	0.1
5	4'	S	Gr	1'	0.1
6	8'	S	Wh	3'	0.1
7	7'	H.S.	Gr/Br	4'	0.1
8	5'	S.	Gr	2'	0.1
9	5'				0.1
10	8'				0.1
11	5'				0.3
12	5'				0.2
13	3'				0.3
14	3'				0.1
15	3'				0.1
16	-				-
17	3'				0.2
18	3'				0.2
19	3'				0.2
20	3'				0.2
21	3'				0.1
22	3'				0.1
23	3'				0.2
24	4'				0.1
25	4'				0.3
26	4'				0.1

LINE 147

Hole No.0

0-5'	Grey and brown sand	2.1
5-10'	Grey and white sand	2.7
10-14'	Brown and white sand	1.7

W.T. 12'
Stopped 14' Coffee rock

Hole No.1

0-5'	Grey and white sand	0.2
5-10'	White sand	0.1
10-15'	Coarse sand	0.1
15-20'	Coarse sand and quartz	0.1
20-21'	Very coarse sand and large quartz pieces	0.1

W.T. 20'
Stopped 21'. Pump only picking up water. Cannot penetrate.

Hole No.2

0-5'	Grey sand	0.1
5-0'	Brown sand	0.1

W.T. 4'
Stopped 9'. Hard strata. Cannot penetrate.

Hole No.3

0-5'	White sand	0.1
5-7'	Brown sand	<0.1

W.T. 4'
Stopped 7'. Running in.

Hole No.4

0-4'	White sand	0.1

W.T. 2'
Stopped 4'. Running in

Hole No.5

0-4'	Grey sand	0.1

W.T. 1'
Stopped 4'. Running in

Hole No.6

0-5'	White sand	0.1
5-8'	White sand	0.2

W.T. 3'
Stopped 8'. Running in

Hole No.7

0-5' Grey sand	0.2
5-7' Brown sand	0.1
W.T. 4'	
Stopped 7'. Hard strata. Cannot penetrate.	

Hole No.8

0-5' Grey sand and clay	0.1
W.T. 2'	
Stopped 5'. Running in	

Hole No.9

0-5'	0.1

Hole No.10

0-5'	0.2
5-8'	0.1

Hole No.11

0-5'	0.3

Hole No.12

0-5'	0.2

Hole No.13

0-3'	0.3

Hole No.14

0-3'	0.1

Hole No.15

0-3'	0.1

Hole No.16

No result

Hole No.17

0-3'	0.2

Hole No.18

0-3' 0.2

Hole No.19

0-3' 0.2

Hole No.20

0-3' 0.2

Hole No.21

0-3' 0.1

Hole No.22

0-3' 0.2

Hole No.23

0-3' 0.2

Hole No.24

0-4' 0.1

Hole No.25

0-4' 0.3

Hole No.26

0-4' 0.1

TABLE XXIV

LINE 163

Hole No.	Depth	%H.M.
0	15'	0.1
1	15'	0.1
2	13'	<0.1
3	7'	0.1
4	4'	0.1
5	4'	0.2
6	5'	0.1
7	5'	0.1
8	4'	0.2
9	4'	0.2
10	5'	0.2
11	5'	0.2
12	5'	0.2
13	5'	0.2
14	5'	0.1

LINE 163

Hole No.0	
0-5'	0.2
5-10'	0.1
10-15'	0.1
Hole No.1	
0-5'	0.1
5-10'	0.1
10-15'	0.1
Hole No.2	
0-5'	0.1
5-10'	0.1
10-13'	0.1
Hole No.3	
0-5'	0.1
5-7'	0.1
Hole No.4	
0-4'	0.1
Hole No.5	
0-4'	0.2
Hole No.6	
0-5'	0.1
Hole No.7	
0-5'	0.1
Hole No.8	
0-4'	0.2
Hole No.9	
0-4'	0.2

Hole No.10	
0-5'	0.2
Hole No.11	
0-5'	0.2
Hole No.12	
0-5'	0.2
Hole No.13	
0-5'	0.2
Hole No.14	
0-5'	0.1

TABLE XXV

LINE JGI

Hole	Depth	Base	Colour	W.T.	% H.M.
0	14'	R	Wh/Gr/Br		5.1
50	9'6"	R	Gr/Wh/Br		2.2
100	6'	R	Gr/Wh/Br	5'	3.9
132	3'	R	Gr/Br	1'	18.4

Weighted average assay - 5.3 per cent
Average depth - 8.1 feet

LINE J. Gr 1

Hole No. 0

0-5'	Grey and white sand	9.1
5-10'	White sand	3.5
10-14'6"	Brown sand	2.7

Stopped 14' - Rock

Hole No. 50

0-5'	Grey and white sand	3.3
5'-9'6"	Brown and white sand	1.2

Stopped 9'6" - Rock

Hole No. 100

0-5'	Grey and white sand	5.4
5-6'	Grey and brown sand	2.4
W.T.	5'	

Stopped 6' - Rock

Hole No. 132

0-5'	Grey and brown sand	18.4
W.T.	1'	

Stopped 3' - Rock.
This has been partly excavated by the drag line.

TABLE XXVI

LINE JG2

Hole	Depth	Base	Colour	W.T.	% H.M.
0	9'	R.	Wh/Gr		5.0
50	9'	R.	Wh/Br	8'	4.2
100	5'	R.	Wh/Gr		25.1
180	9'	R.	Gr		53.9
192	10'	R.	Gr		61.4

LINE J. 6. 2

Hole No. 0

0-5'	White and grey sand	6.6
5-9'	" " "	3.4

Stopped 9' - Rock

Hole No. 50

0-5'	White sand	0.3
5-9'	Brown sand	5.2
W.T.	8'	

Stopped 9' - Rock

Hole No. 100

0-5'	White and grey sand	25.1

Stopped 5' - rock

Hole No. 150

0-5'	Grey sand	65.4
5-9'	" "	42.5

Stopped 9' Rock

Hole No. 192

0-5'	Grey sand	42.1
5-10'	" "	80.7

Stopped 10' - Rock

TABLE XXVII

B.W. HOLES

Hole	Depth	Base	Colour	W.T.	% H.M.
1	5'	C.R.			0.3
2	7'	C.R.			0.6
3	7'	C.R.		5'	0.9
4	9'	C.R.			0.3
5.	5'	C.R.		5'	0.4
6	1'				1.2
7	8'	C.R.	Wh		0.4
8	5'		Y		2.7
9					1.6
10	14'	R.	Wh		0.9
11	7'	C.R.			1.0

B.W. HOLES

Hole No. 1 - N/E Cnr. 99.1.6. P/E 1928

0-5'	0.3
Coffee rock	

Hole No. 2

0-5'	0.7
5-7'	0.4
Coffee rock	

Hole No. 3

0-5'	1.2
5-7'	0.6
W.T. 5'	
Coffee rock	

Hole No. 4 - 1 mile along Pegarah Road from Grassy Road

0-5'	0.3
5-9'	0.2
Coffee rock	

Hole No. 5 - 1 mile s. along N. Pegarah Road from Fraser Road.

0-5'	0.4
W.T. 5'	
Coffee rock	

Hole No. 6 - 1/s Nth. Pegarah Road and Fraser Rd.

0-1' Wash	1.2
To be analysed for Sn.	

Hole No. 7 - South Yellow Rock Road.

0-5' White sand	0.3
5-8' " "	0.4
Coffee rock	

Hole No. 8

Yellow Rock Road - Sharmon West

0-5' Yellow sand	2.7
Water table	

Hole No. 9

Yellow Rock Beach South End	
Sample off beach	1.6

B.W. HOLES

027128

Hole No. 10 - 1000' s. King Road, Sea Elephant River, top of river dune

0-5'	White sand	1.2
5-10'	Soft coffee rock	0.9
10-11'	" " "	0.8
11-14'	Gravel	0.8
Granite		

Hole No. 11 - Ridge Road at Sea Elephant River

0-5'	Sand	1.2
5-7'	Coffee rock	0.8
Coffee rock		

TABLE 1

LINE 63

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.1
2	15'	Y	0.8
3	10'	Wh/Gn	1.0
4	15'	Wh	0.6

WRIGHTS SURVEY LINE 63

Hole No.1

ft		
0 - 5	Yellow sand	1.1

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	1.1

Hole No.3

0 - 5	White sand	0.9
5 - 10	Grey sand	1.1

Hole No.4

0 - 5	White sand	0.9
5 - 10	White sand	0.8
10 - 15	White sand	0.3

TABLE 2

LINE 64

Hole No.	Depth	Colour	%H.M.
1	10'	Y	0.8
2	15'	Y	0.8
3	20'	Y	0.7
4	15'	Y	1.5
5	5'	Gn	0.4
6	15'	Wh/Gn	0.4
7	5'	Wh	0.1
8	10'	Wh	0.3
9	10'	Wh	0.3
10	35'	Wh/Gn	0.2
11	25'	Wh/Gn/Br	0.5
12	15'	Br	0.6
13	55'	Wh/Gn	0.5

WRIGHTS SURVEY LINE 64

Hole No.1

0 - 5	Yellow sand	0.8
5 - 10	Yellow sand	0.8

Hole No.2

0 - 5	Yellow sand	0.8
5 - 10	Yellow sand	0.9
10 - 15	Yellow sand	0.8

Hole No.3

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.7
10- 15	Yellow sand	0.8
15 - 20	Yellow sand	0.8

Hole No.4

0 - 5	Yellow sand	1.8
5 - 10	Yellow sand	2.4
10 - 15	Yellow sand	0.3

Hole No.5

0 - 5	Grey sand	0.4

Hole No.6

0 - 5	White sand	0.4
5 - 10	White sand	0.3
10 - 15	Grey sand	0.4

Hole No.7

0 - 5	White sand	0.1

Hole No.8

0 - 5	White sand	0.4
5 - 10	White sand	0.2

Hole No.9

0 - 5	White sand	0.2
5 - 10	White sand	0.5

Hole No.10

ft		
0 - 5	White sand	0.3
5 - 10	White sand	<0.1
10 - 15	White sand	<0.1
15 - 20	Grey sand	0.2
20 - 25	Grey sand	0.4
25 - 30	Grey sand	0.5
30 - 35	Grey sand	0.2

Hole No.11

0 - 5	White sand	0.2
5 - 10	Grey sand	0.8
10 - 15	Grey sand	0.7
15 - 20	Brown sand	0.3
20 - 25	Brown sand	0.4

Hole No.12

0 - 5	Brown sand	0.2
5 - 10	Brown sand	0.7
10 - 15	Brown sand	0.8

Hole No.13

0 - 5	White sand	0.7
5 - 10	White sand	0.5
10 - 15	White sand	0.5
15 - 20	White sand	0.5
20 - 25	White sand	0.6
25 - 30	White sand	0.4
30 - 35	White sand	0.3
35 - 40	Grey sand	0.7
40 - 45	Grey sand	0.5
45 - 50	Grey sand	0.5
50 - 55	Grey sand	0.4

TABLE 3

LINE 65

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.1
2	5'	Y	2.8

WRIGHTS SURVEY LINE 65

Hole No.1

0 - 5	Yellow sand	1.1

Hole No.2

0 - 5	Yellow sand	2.8

TABLE 4

LINE 66

Hole No.	Depth	Colour	%H.M.
1	5'	Y	2.7
2	20'	Y	0.4
3	5'	Gy	0.2
4	5'	Gy	0.2
5	10'	Wh/Gy	0.6
6	5'	Gy	0.2
7	15'	Gy/Br	0.4
8	5'	Gy	0.2
9	5'	Gy	< 0.1

WRIGHTS SURVEY LINE 66

Hole No.1

ft		
0 - 5	Yellow sand	2.7

Hole No.2

0 - 5	Yellow sand	0.7
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.2
15 - 20	Yellow sand	0.2

Hole No.3

0 - 5	Grey sand	0.2

Hole No.4

0 - 5	Grey sand	0.2

Hole No.5

0 - 5	White sand	0.6
5 - 10	Grey sand	0.7

Hole No.6

0 - 5	Grey sand	0.2

Hole No.7

0 - 5	Grey sand	0.6
5 - 10	Grey sand	0.3
10 - 15	Brown sand	0.2

Hole No.8

0 - 5	Grey sand	0.2

Hole No.9

0 - 5	Grey sand	<0.1

TABLE 5

LINE 67

Hole No.	Depth	Colour	%H.M.
1	5'	Y	2.6
2	15'	Y	0.5
3	5'	Gr	0.2
4	5'	Gr	0.2
5	15'	Wh/Gr	0.5
6	5'	Gr	0.2
7	15'	Br	0.3
8	5'	Gr	<0.1
9	5'	Br	<0.1
10	10'	Gr	0.1

WRIGHTS SURVEY LINE 67

Hole No.1

0 - 5	Yellow sand	2.6

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.2

Hole No.3

0 - 5	Grey sand	0.2

Hole No.4

0 - 5	Grey sand	0.2

Hole No.5

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	Grey sand	0.3

Hole No.6

0 - 5	Grey sand	0.2

Hole No.7

0 - 5	Brown sand	0.2
5 - 10	Brown sand	0.1
10 - 15	Brown sand	0.2

Hole No.8

0 - 5	Grey sand	<0.1

Hole No.9

0 - 5	Brown sand	<0.1

Hole No.10

0 - 5	Grey sand	0.2
5 - 10	Grey sand	<0.1

TABLE 6

LINE 68

Hole No.	Depth	Colour	%H.M.
1	5'	Y	3.6
2	10'	Y	0.2
3	15'	Y	0.7
4	5'	Wh	0.2
5	5'	Gr	0.3
6	20'	Wh/Gr	0.4
7	10'	Wh/Gr	0.6
8	20'	Wh/Gr	0.3
9	10'	Wh	0.3
10	10'	Y	0.3
11	15'	Y/Gr	0.7
12	25'	Y/Wh	0.6
13	20'	Gr/Wh	0.6
14	5'	Y	2.6

WRIGHTS SURVEY LINE 68

Hole No.1

ft		
0 - 5	Yellow sand	3.6

Hole No.2

0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.2

Hole No.3

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.8

Hole No.4

0 - 5	White sand	0.2

Hole No.5

0 - 5	Grey sand	0.3

Hole No.6

0 - 5	White sand	0.6
5 - 10	White sand	0.3
10 - 15	White sand	0.4
15 - 20	Grey sand	0.3

Hole No.7

0 - 5	White sand	0.5
5 - 10	Grey sand	0.8

Hole No.8

0 - 5	White sand	0.4
5 - 10	White sand	0.3
10 - 15	White sand	0.4
15 - 20	Grey sand	0.2

Hole No.9

0 - 5	White sand	0.3
5 - 10	White sand	0.3

Hole No.10

0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.3

Hole No.11

0 - 5	Yellow sand	0.6
5 - 10	Grey sand	0.7
10 - 15	Grey sand	0.8

Hole No.12

0 - 5	Yellow sand	0.7
5 - 10	Yellow sand	0.8

Hole No.12 Cont.

ft		
10 - 15	White sand	0.5
15 - 20	White sand	0.5
20 - 25	White sand	0.4

Hole No.13

0 - 5	Grey sand	0.7
5 - 10	White sand	0.6
10 - 15	Grey sand	0.6
15 - 20	Grey sand	0.5

Hole No.14

0 - 5	Yellow sand	2.6

TABLE 7

LINE 69

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.2
2	15'	Y	0.4
3	15'	Y	0.7
4	25'	Wh/Gn	0.7
5	15'	Wh/Gn	0.4
6	5'	Gn	0.2
7	5'	Gn	0.2
8	10'	Wh/Gn	0.4
9	20'	Wh/Gn	0.6
10	20'	Wh/Y	0.7
11	25'	Y/Gn	0.4
12	10'	Y	0.6

WRIGHTS SURVEY LINE 69

Hole No.1

ft		
0 - 5	Yellow sand	1.2

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.3
10 - 15	Yellow sand	0.3

Hole No.3

0 - 5	Yellow sand	0.8
5-10	Yellow sand	0.7
10 - 15	Yellow sand	0.6

Hole No.4

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	White sand	0.7
15 - 20	Grey sand	0.8
20 - 25	Grey sand	0.8

Hole No.5

0 - 5	White sand	0.2
5 - 10	Grey sand	0.3
10 - 15	Grey sand	0.6

Hole No.6

0 - 5	Grey sand	0.2

Hole No.7

0 - 5	Grey sand	0.2

Hole No.8

0 - 5	White sand	0.3
5 - 10	Grey sand	0.4

Hole No.9

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	White sand	0.7
15 - 20	Grey sand	0.7

Hole No.10

0 - 5	White sand	0.6
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.8
15 - 20	Yellow sand	0.6

Hole No. 11

ft		
0 - 5	Yellow sand	0.7
5 - 10	Yellow sand	0.7
10 - 15	" "	0.2
15 - 20	" "	0.7
20 - 25	grey sand	0.1

Hole No. 12

0-5	Yellow sand	0.6
5-10	" "	0.6

TABLE 8

LINE 70

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.6
2	15'	Y	0.3
3	15'	Y	0.7
4	25'	Wh/Gr	0.5
5	15'	Wh/Gr	0.3
6	5'	Gr	0.2
7	5'	Gr	0.2
8	10'	Wh	0.4
9	20'	Wh/Gr	0.6
10	20'	Wh/Gr	0.5
11	20'	Wh/Gr	0.4
12	20'	Y/Gr	0.6

WRIGHTS SURVEY LINE 70

Hole No.1

ft		
0 - 5	Yellow sand	1.6

Hole No.2

0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.2
10 - 15	Yellow sand	0.3

Hole No.3

0 - 5	Yellow sand	0.9
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.5

Hole No.4

0 - 5	White sand	0.7
5 - 10	White sand	0.6
10 - 15	White sand	0.8
15 - 20	White sand	0.7
20 - 25	Grey sand	0.8

Hole No.5

0 - 5	White sand	0.4
5 - 10	Grey sand	0.2
10 - 15	Grey sand	0.3

Hole No.6

0 - 5	Grey sand	0.2

Hole No.7

0 - 5	grey sand	0.2

Hole No.8

0 - 5	White sand	0.4
5 - 10	White sand	0.4

Hole No.9

0 - 5	White sand	0.5
5 - 10	White sand	0.6
10 - 15	White sand	0.7
15 - 20	Grey sand	0.7

Hole No.10

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	Grey sand	0.4
15 - 20	Grey sand	0.3

Hole No.11

ft		
0 - 5	White sand	0.4
5 - 10	White sand	0.4
10 - 15	White sand	0.4
15 - 20	Grey sand	0.3

Hole No.12

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.6
10 - 15	Grey sand	0.6
15 - 20	Grey sand	0.6

TABLE 9

LINE 71

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.8
2	20'	Y	3.0
3	5'	Y	2.1

WRIGHTS SURVEY LINE 71

Hole No.1

ft		
0 - 5	Yellow sand	1.8

Hole No.2

0 - 5	Yellow sand	2.3
5 - 10	Yellow sand	1.8
10 - 15	Yellow sand	4.4
15 - 20	Yellow sand	3.2

Hole No.3

0 - 5	Yellow sand	2.1

TABLE 10

LINE 72

Hole No.	Depth	Colour	%H.M.
1	5'	Y	2.1
2	5'	Y	0.8
3	10'	Wh/Gr	0.5
4	10'	Wh	0.7
5	20'	Wh	0.4
6	15'	Wh/Y/Gr	0.5
7	10'	Gr	0.3

WRIGHTS SURVEY LINE 72

Hole No.1

ft		
0 - 5	Yellow sand	2.1

Hole No.2

0 - 5	Yellow sand	0.8

Hole No.3

0 - 5	White sand	0.2
5 - 10	Grey sand	0.8

Hole No.4

0 - 5	White sand	0.6
5 - 10	White sand	0.7

Hole No.5

0 - 5	White sand	0.7
5 - 10	White sand	0.4
10 - 15	White sand	0.2
15 - 20	White sand	0.2

Hole No.6

0 - 5	White sand	0.6
5 - 10	Yellow sand	0.5
10 - 15	Grey sand	0.4

Hole No.7

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.3

TABLE 11

LINE 73

Hole No.	Depth	Colour	%H.M.
1	5'	Y	4.2
2	30'	Y/Gn	1.3
3	10'	Br	0.5
4	10'	Wh/Gn	0.4
5	10'	Wh	0.4
6	10'	Wh	0.7
7	10'	Wh	1.1
8	10'	Wh	0.7
9	20'	Y/Gn	0.7
10	10'	Y	0.2
11	5'	Y	2.1

WRIGHTS SURVEY LINE 73

Hole No.1

ft		
0 - 5	Yellow sand	4.2

Hole No.2

0 - 5	Yellow sand	0.8
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	2.2
15 - 20	Yellow sand	2.6
20 - 25	Grey sand	0.8
25 - 30	Grey sand	0.9

Hole No.3

0 - 5	Brown sand	0.5
5 - 10	Brown sand	0.6

Hole No.4

0 - 5	White sand	0.4
5 - 10	Grey sand	0.4

Hole No.5

0 - 5	White sand	0.3
5 - 10	White sand	0.4

Hole No.6

0 - 5	White sand	0.6
5 - 10	White sand	0.7

Hole No.7

0 - 5	White sand	1.4
5 - 10	White sand	0.9

Hole No.8

0 - 5	White sand	0.6
5 - 10	White sand	0.7

Hole No.9

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.7
15 - 20	Grey sand	0.8

Hole No.10

0 - 5	Yellow sand	0.2
5 - 10	Yellow sand	0.2

Hole No.11

0 - 5	Yellow sand	2.1

TABLE 12

LINE 74

Hole No.	Depth	Colour	%H.M.
1	5'	Y	2.1
2	25'	Y	0.9
3	5'	Br	0.8
4	25'	Wh/Br	0.6
5	15'	Wh/Gy/Br	0.2
6	15'	Wh/Gy	<0.1
7	15'	Wh	0.3

WRIGHTS SURVEY LINE 74

Hole No.1

0 - 5	Yellow sand	2.1

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	0.7
15 - 20	Yellow sand	0.2
20 - 25	Yellow sand	2.1

Hole No.3

0 - 5	Brown sand	0.8

Hole No.4

0 - 5	White sand	2.2
5 - 10	White sand	0.3
10 - 15	White sand	0.4
15 - 20	Brown sand	0.2
20 - 25	Brown sand	< 0.1

Hole No.5

0 - 5	White sand	0.2
5 - 10	Grey sand	0.3
10 - 15	Brown sand	< 0.1

Hole No.6

0 - 5	White sand	0.1
5 - 10	White sand	< 0.1
10 - 15	Grey sand	< 0.1

Hole No.7

0 - 5	White sand	0.3
5 - 10	White sand	0.4
10 - 15	White sand	0.3

TABLE 13

LINE 75

Hole No.	Depth	Colour	%H.M.
1	15'	Y	0.3
2	40'	Y	0.7
3	35'	Y	0.3
4	20'	Y	0.4
5	10'	Wh	0.3
6	5'	Gn	<0.1
7	5'	Gn	<0.1
8	5'	Wh	0.2
9	15'	Wh/Gn	0.4
10	15'	Gn	0.1
11	20'	Wh/Gn	0.5
12	20'	Gn	0.7

WRIGHTS SURVEY LINE 75

Hole No.1

ft		
0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.3
10 - 15	Yellow sand	0.3

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	0.7
15 - 20	Yellow sand	1.3
20 - 25	Yellow sand	0.4
25 - 30	Yellow sand	0.8
30 - 35	Yellow sand	0.8
35 - 40	Yellow sand	0.6

Hole No.3

0 - 5	Yellow sand	0.3
5 - 10	Yelow sand	0.4
10 - 15	Yellow sand	0.5
15 - 20	Yellow sand	0.3
20 - 25	Yellow sand	0.2
25 - 30	Yellow sand	< 0.1
30 - 35	Yellow sand	< 0.1

Hole No.4

0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.2
10 - 15	Yellow sand	0.4
15 - 20	Yellow sand	0.5

Hole No.5

0 - 5	White sand	0.3
5 - 10	White sand	0.2

Hole No.6

0 - 5	Grey sand	<0.1

Hole No.7

0 - 5	Grey sand	<0.1

Hole No.8

0 - 5	White sand	0.2

Hole No.9

0 - 5	White sand	0.6
5 - 10	White sand	0.3
10 - 15	Grey sand	0.2

Hole No.10

0 - 5	Grey sand	0.3
5 - 10	Grey sand	<0.1
10 - 15	Grey sand	<0.1

Hole No.11

0 - 5	White sand	0.3
5 - 10	White sand	0.4
10 - 15	White sand	0.6
15 - 20	Grey sand	0.6

Hole No.12

0 - 5	Grey sand	0.4
5 - 10	Grey sand	0.8
10 - 15	Grey sand	0.9
15 - 20	Grey sand	0.8

TABLE 14

LINE 76

Hole No.	Depth	Colour	%H.M.
1	15'	Y	0.7
2	20'	Y	2.6
3	15'	Y	0.5
4	10'	Y/Wh	<0.1

WRIGHTS SURVEY LINE 76

Hole No.1

ft		
0 - 5	Yellow sand	0.8
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	0.6

Hole No.2

0 - 5	Yellow sand	3.2
5 - 10	Yellow sand	2.4
10 - 15	Yellow sand	4.6
15 - 20	Yellow sand	0.6

Hole No.3

0 - 5	Yellow sand	0.1
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.8

Hole No.4

0 - 5	Yellow sand	< 0.1
5 - 10	White bed	< 0.1

TABLE 15

LINE 77

Hole No.	Depth	Colour	%H.M.
1	10'	Y	1.9
2	15'	Y	0.7
3	10'	Gn	1.2
4	15'	Wh/Gn	0.8

WRIGHTS SURVEY LINE 77

Hole No.1

ft		
0 - 5	Yellow sand	2.1
5 - 10	Yellow sand	1.8

Hole No.2

0 - 5	Yellow sand	0.9
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.8

Hole No.3

0 - 5	Grey sand	1.1
5 - 10	Grey sand	0.3

Hole No.4

0 - 5	White sand	0.9
5 - 10	Grey sand	0.7
10 - 15	Grey sand	0.8

TABLE 16

LINE 78

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.6
2	15'	Y	0.8
3	10'	Y/Gr	0.4
4	15'	Gr/Br	0.1

WRIGHTS SURVEY LINE 78

Hole No.1

ft		
0 - 5	Yellow sand	1.6

Hole No.2

0 - 5	Yellow sand	0.9
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.7

Hole No.3

0 - 5	Yellow sand	0.7
5 - 10	Grey sand	<0.1

Hole No.4

0 - 5	Grey sand	0.1
5 - 10	Grey sand	0.1
10 - 15	Brown sand	<0.1

TABLE 17

LINE 79

Hole No.	Depth	Colour	%H.M.
1	10'	Y	0.6
2	15'	Y/Br	0.5
3	5'	Gn	0.2

WRIGHTS SURVEY LINE 79

Hole No.1

0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.8

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.4
10 - 15	Brown sand	0.5

Hole No.3

0 - 5	Grey sand	0.2

TABLE 18

LINE 34

Hole No.	Depth	Colour	%H.M.
1	5'	Y	1.6
2	5'	Y	2.7
3	10'	Wh	0.4
4	10'	Wh	0.3

WRIGHTS SURVEY LINE 34

Hole No.1

ft		
0-5	Yellow Sand	1.6

Hole No.2

0-5	Yellow Sand	2.7

Hole No.3

0-5	White Sand	0.4
5-10	White Sand	0.5

Hole No.4

0-5	White Sand	0.3
5-10	White Sand	0.4
10-15	Peat	

TABLE 19

LINE 35

Hole No.	Depth	Colour	%H.M.
1	15'	Y	0.9
2	4'	Y	0.3
3	60'	Y/Br/Gr	1.0
4	40'	Y/Br/Gr	0.4
5	35'	Y/Gr	0.5
6	25'	Y/Gr	0.4
7	60'	Y/Wh/Gr	0.6
8	30'	Y/WH/Gr	0.3
9	35'	Y/Gr	0.4
10	23'	Wh/Gr	0.5
11	5'	-	0.8
12	30'	Y/Gr	1.1
13	30'	Y/Gr	2.2
14	20'	Y	3.3

WRIGHTS SURVEY LINE 35

Hole No.1

ft.		
0 - 5	Yellow Sand	0.2
5 -10	Yellow Sand	1.6
10 -15	Yellow Sand	1.1

Hole No.2

0 - 4	Yellow Sand	0.3

Hole No.3

0 - 5	Yellow Sand	0.5
5 - 10	Yellow Sand	0.4
10 - 15	Yellow Sand	0.5
15 - 20	Yellow Sand	0.4
20 - 25	Yellow Sand	1.2
25 - 30	Yellow Sand	0.2
30 - 35	Brown Sand	2.7
35 - 40	Brown Sand	0.4
40 - 45	Brown Sand	0.6
45 - 50	Brown Sand	0.5
50 - 55	Grey Sand	4.6
55 - 60	Grey Sand	0.7

Hole No.4

0 - 5	Yellow Sand	0.3
5 - 10	Yellow Sand	0.4
10 - 15	Yellow Sand	0.4
15 - 20	Yellow Sand	0.3
20 - 25	Grey Sand	0.3
25 - 30	Grey Sand	0.8
30 - 35	Brown Sand	0.2
35 - 40	Brown Sand	0.6

Hole No.5

0 - 5	Yellow Sand	0.1
5 - 10	Yellow Sand	0.4
10 - 15	Yellow Sand	0.4
15 - 20	Grey Sand	1.3
20 - 25	Grey Sand	0.6
25 - 30	Grey Sand	0.3
30 - 35	Grey Sand	0.8

Hole No.6

0 - 5	Yellow Sand	0.4
5 - 10	Yellow Sand	0.1
10 - 15	Yellow Sand	0.3
15 - 20	Yellow Sand	0.3
20 - 25	Grey Sand	0.8

Hole No.7

ft.		
0 - 5	Yellow Sand	0.4
5 - 10	Yellow Sand	0.4
10 - 15	White Sand	0.7
15 - 20	White Sand	1.3
20 - 25	White Sand	0.8
25 - 30	White Sand	0.8
30 - 35	White Sand	0.2
35 - 40	White Sand	0.2
40 - 45	White Sand	0.3
45 - 60	Grey Sand	0.8
55 - 60	Grey Sand	0.4

Hole No.8

0 - 5	Yellow Sand	0.5
5 - 10	White Sand	0.4
10 - 15	White Sand	0.4
15 - 20	White Sand	0.2
20 - 25	Grey Sand	0.4
25 - 30	Grey Sand	0.3

Hole No.9

0 - 5	Yellow Sand	0.4
5 - 10	Yellow Sand	0.7
10 - 15	Grey Sand	0.3
15 - 20	Grey Sand	0.4
20 - 25	Grey Sand	0.2
25 - 30	Grey Sand	0.3
30 - 35	Grey Sand	0.5

Hole No.10

0 - 5	White Sand	0.2
5 - 10	White Sand	0.4
10 - 15	Grey Sand	0.5
15 - 20	Grey Sand	0.6
20 - 23	Grey Sand	0.8

Hole No.11

0 - 5		0.8

Hole No.12

0 - 5	Yellow Sand	0.6
5 - 10	Yellow Sand	0.7
10 - 15	Grey Sand	0.8
15 - 20	Grey Sand	2.6
20 - 25	Grey Sand	1.1
25 - 30	Grey Sand	0.8

Hole No. 13

ft.		
0 - 5	Yellow sand	1.4
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	2.6
15 - 20	Yellow sand	0.7
20 - 25	Grey sand	4.6
25 - 30	Grey sand	3.2

Hole No. 14

0 - 5	Yellow sand	0.8
5 - 10	Yellow sand	1.1
10 - 15	Yellow sand	2.7
15 - 20	Yellow sand	0.6

TABLE 20

LINE 36

Hole No.	Depth	Colour	%H.M.
1	15'	Y	0.8
2	20'	Y	0.4
3	15'	Y	0.4
4	25'	Y/Gn	0.5
5	20'	Wh/Gn	0.3
6	25'	Wh/Gn	0.4
7	25'	Wh/Br/Gn	0.3

WRIGHTS SURVEY LINE 36

Hole No.1

ft.		
0 - 5	Yellow sand	1.1
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.6

Hole No.2

0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.4
10 - 15	Yellow sand	0.4
15 - 20	Yellow sand	0.3

Hole No.3

0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.5
10 - 15	Yellow sand	0.4

Hole No.4

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.5
15 - 20	Yellow sand	0.4
20 - 25	Grey sand	0.4

Hole No.5

0 - 5	White sand	0.7
5-10	White sand	0.4
10 - 15	White sand	0.1
15 - 20	Grey sand	0.1

Hole No.6

0 - 5	White sand	0.4
5 - 10	White sand	0.3
10 - 15	White sand	0.5
15 - 20	White sand	0.3
20 - 25	Grey sand	0.3

Hole No.7

0 - 5	White sand	0.5
5 - 10	White sand	0.6
10 - 15	Brown sand	0.2
15 - 20	Grey sand	0.2
20 - 25	Grey sand	0.1

TABLE 21

LINE 37

Hole No.	Depth	Colour	%H.M.
1	10'	Y	0.3
2	20'	Y	0.5
3	25'	Y/Gr	0.6
4	15'	Wh/Gr	0.6
5	15'	Wh/Gr	0.6
6	20'	Wh/Gr	0.4
7	25'	Wh/Br	0.5
8	10'	Wh	0.3
9	25'	Y/Wh/Gr	0.5

WRIGHTS SURVEY LINE 37

Hole No.1

ft		
0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.3

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.4
15 - 20	Yellow sand	0.3

Hole No.3

0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.7
10 - 15	Yellow sand	0.5
15 - 20	Yellow sand	0.4
20 - 25	Grey sand	0.8

Hole No.4

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	Grey sand	0.7

Hole No.5

0 - 5	White sand	0.6
5 - 10	White sand	0.6
10 - 15	Grey sand	0.7

Hole No.6

0 - 5	White sand	0.6
5 - 10	White sand	0.5
10 - 15	Grey sand	0.3
15 - 20	Grey sand	0.3

Hole No.7

0 - 5	White sand	0.7
5 - 10	White sand	0.6
10 - 15	White sand	0.3
15 - 20	Brown sand	0.3
20 - 25	Brown sand	0.2

Hole No.8

0 - 5	White sand	0.4
5 - 10	White sand	0.3

Hole No.9

ft		
0 - 5	Yellow sand	0.4
5 - 10	White sand	0.5
10 - 15	White sand	0.6
15 - 20	Grey sand	0.7
20 - 25	Grey sand	0.3

TABLE 22

LINE 38

Hole No.	Depth	Colour	%H.M.
1	5'	Y	0.4
2	15'	Y	0.5
3	10'	Y	0.3
4	5'	Wh	0.4
5	5'	Wh	0.3
6	15'	Gy/Br	0.8
7	15'	Gy/Br	0.8
8	10'	Gr	0.8

WRIGHTS SURVEY LINE 38

Hole No.1

ft		
0 - 5	Yellow sand	0.4

Hole No.2

0 - 5	Yellow sand	0.4
5 - 10	Yellow sand	0.5
10 - 15	Yellow sand	0.5

Hole No3

0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	0.3

Hole No.4

0 - 5	White sand	0.4

Hole No.5

0 - 5	White sand	0.3

Hole No.6

0 - 5	Grey sand	0.8
5 - 10	Grey sand	0.8
10 - 15	Brown sand	0.7

Hole No.7

0 - 5	Grey sand	0.8
5 - 10	Grey sand	0.9
10 - 15	Brown sand	0.8

Hole No.8

0 - 5	Grey sand	0.8
5 - 10	Grey sand	0.8

TABLE 23

LINE 39

Hole No.	Depth	Colour	%H.M.
1	15'	Y	0.7
2	25'	Y/Gr	0.5
3	20'	Y	0.5
4	25'	Gr/Br	0.5
5	10'	Wh	0.5
6	15'	Wh/Gr	0.3
7	5'	Gr	0.6

WRIGHTS SURVEY LINE 39

Hole No.1

ft		
0 - 5	Yellow sand	0.7
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	0.6

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.5
15 - 20	Grey sand	0.4
20 - 25	Grey sand	0.5

Hole No.3

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.5
10 - 15	Yellow sand	0.4
15 - 20	Yellow sand	0.4

Hole No.4

0 - 5	Grey sand	0.5
5 - 10	Grey sand	0.5
10 - 15	Brown sand	0.6
15 - 20	Brown sand	0.6
20 - 25	Brown sand	0.4

Hole No.5

0 - 5	White sand	0.5
5 - 10	White sand	0.5

Hole No.6

0 - 5	White sand	0.2
5 - 10	White sand	0.3
10 - 15	Grey sand	0.4

Hole No.7

0 - 5	Grey sand	0.6

TABLE 24

LINE 40

Hole No.	Depth	Colour	%H.M.
1	5'	Y	0.6
2	15'	Y	0.6
3	10'	Wh	< 0.1
4	15'	Wh	< 0.1
5	15'	Wh	0.3
6	20'	Wh/Gr	0.4
7	10'	Gr	< 0.1
8	15'	Wh/Gr	0.3

WRIGHTS SURVEY LINE 40

Hole No.1

ft		
0 - 5	Yellow sand	0.6

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.5
10 - 15	Yellow sand	0.6

Hole No.3

0 - 5	White sand	<0.1
5 - 10	White sand	<0.1

Hole No.4

0 - 5	White sand	<0.1
5 - 10	White sand	<0.1
10 - 15	White sand	<0.1

Hole No.5

0 - 5	White sand	0.6
5 - 10	White sand	0.1
10 - 15	White sand	<0.1

Hole No.6

0 - 5	White sand	0.4
5 - 10	White sand	0.3
10 - 15	White sand	0.6
15 - 20	Grey sand	0.5

Hole No.7

0 - 5	Grey sand	<0.1
5 - 10	Grey sand	0.1

Hole No.8

0 - 5	White sand	0.4
5 - 10	Grey sand	0.3
10 - 15	Grey sand	0.3

TABLE 25

LINE 41

Hole No.	Depth	Colour	%H.M.
1	10'	Y	0.6
2	15'	Y	0.7
3	10'	Y	0.8
4	15'	Wh/Gr	<0.1
5	10'	Wh	0.7
6	20'	Wh/Gr	0.3

WRIGHTS SURVEY LINE 41

Hole No.1

ft		
0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.7

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.8
10 - 15	Yellow sand	0.8

Hole No.3

0 - 6	Yellow sand	0.8
5 - 10	Yellow sand	0.8

Hole No.4

0 - 5	White sand	<0.1
5 - 10	White sand	<0.1
10 - 15	Grey sand	<0.1

Hole No.5

0 - 5	White sand	0.6
5 - 10	White sand	0.8

Hole No.6

0 - 5	White sand	0.4
5 - 10	White sand	0.3
10 - 15	Grey sand	0.3
15 - 20	Grey sand	0.2

TABLE 26

LINE 42

Hole No.	Depth	Colour	%H.M.
1	10'	Y	0.7
2	15'	Y	0.3
3	20'	Y/Gn	0.6
4	15'	Wh/Gn	<0.1
5	20'	Wh	0.4
6	10'	Gr	0.3

WRIGHTS SURVEY LINE 42

Hole No.1

ft		
0 - 5	Yellow sand	0.3
5 - 10	Yellow sand	1.1

Hole No.2

0 - 5	Yellow sand	0.6
5 - 10	Yellow sand	0.3
10 - 15	Yellow sand	0.2

Hole No.3

0 - 5	Yellow sand	0.7
5 - 10	Yellow sand	0.6
10 - 15	Yellow sand	0.8
15 - 20	Grey sand	0.3

Hole No.4

0 - 5	White sand	<0.1
5 - 10	Grey sand	<0.1
10 - 15	Grey sand	<0.1

Hole No.5

0 - 5	White sand	0.6
5 - 10	White sand	0.3
10 - 15	White sand	0.3
15 - 20	White sand	0.4

Hole No.6

0 - 5	Grey sand	0.3
5 - 10	Grey sand	0.3

TABLE 27

LINE 93

Hole No.	Depth	Colour	%H.M.
1	10'	Br	8.0
2	15'	Gy/Wh/Br	2.3
3	10'	Gy	0.3
4	5'	Gy	<0.1
5	10'	Gy/Br	0.2

WRIGHTS SURVEY LINE 93

Hole No.1

ft		
0 - 5	Brown sand	12.6
5 - 10	Brown sand	3.4

Hole No.2

0 - 5	Grey sand	3.4
5 - 10	White sand	2.6
10 - 15	Brown sand	0.9

Hole No.3

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.3

Hole No.4

0 - 5	Grey sand	<0.1

Hole No.5

0 - 5	Grey sand	0.3
5 - 10	Brown sand	<0.1

TABLE 28

LINE 94

Hole No.	Depth	Colour	%H.M.
1	10'	Br	9.0
2	15'	G/Wh/Br	2.3
3	10'	G	0.3
4	15'	G/Br	<0.1
5	10'	G	0.1
6	15'	G/Br	0.2
7	5'	G	0.2

WRIGHTS SURVEY LINE 94

Hole No.1

ft		
0 - 5	Brown sand	12.6
5 - 10	Brown sand	5.4

Hole No.2

0 - 5	Grey sand	3.4
5 - 10	White sand	2.6
10 - 15	Brown sand	0.9

Hole No.3

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.3

Hole No.4

0 - 5	Grey sand	<0.1
5 - 10	Grey sand	<0.1
10 - 15	Brown sand	<0.1

Hole No.5

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.1

Hole No.6

0 - 5	Grey sand	<0.1
5 - 10	Brown sand	0.2
10 - 15	Brown sand	0.3

Hole No.7

0 - 5	Grey sand	0.2

TABLE 29

LINE 95

Hole No.	Depth	Colour	%H.M.
1	10'	Y/Wh	1.5
2	10'	Br	0.8
3	10'	Br	1.6
4	15'	Gr	0.1

WRIGHTS SURVEY LINE 95

Hole No.1

ft		
0 - 5	Yellow sand	1.5
5 - 10	White sand	1.5

Hole No.2

0 - 5	Brown sand	0.7
5 - 10	Brown sand	0.8

Hole No.3

0 - 5	Brown sand	2.0
5 - 10	Brown sand	1.3

Hole No.4

0 - 5	Grey sand	0.2
5 - 10	Grey sand	<0.1
10 - 15	Grey sand	<0.1

TABLE 30

LINE 96

Hole No.	Depth	Colour	%H.M.
1	10'	Y/Wh	<0.1
2	15'	Br	1.2
3	10'	Br/Gr	0.9
4	5'	Gr	<0.1
5	5'	Gr	<0.1
6	10'	Br/Gr	0.1
7	5'	Gr	<0.1
8	5'	Br	0.2
9	10'	Gr	<0.1
10	15'	Br	0.3
11	5'	Gr	0.2
12	10'	Br	0.2
13	10'	Gr/Br	0.1
14	15'	Br	0.3

WRIGHTS SURVEY LINE 96

Hole No.1

ft		
0 - 5	Yellow sand	>0.1
5 - 10	White sand	>0.1

Hole No.2

0 - 5	Brown sand	1.4
5 - 10	Brown sand	1.4
10 - 15	Brown sand	0.9

Hole No.3

0 - 5	Brown sand	1.0
5 - 10	Grey sand	0.9

Hole No.4

0 - 5	Grey sand	<0.1

Hole No.5

0 - 5	Grey sand	<0.1

Hole No.6

0 - 5	Brown sand	0.2
5 - 10	Grey sand	<0.1

Hole No.7

0 - 5	Grey sand	<0.1

Hole No.8

0 - 5	Brown sand	0.2

Hole No.9

0 - 5	Grey sand	0.1
5 - 10	Grey sand	<0.1

Hole No.10

0 - 5	Brown sand	0.4
5 - 10	Brown sand	0.2
10 - 15	Brown sand	0.3

Hole No.11

0 - 5	Grey sand	0.2

Hole No.12

0 - 5	Brown sand	0.3
5 - 10	Brown sand	<0.1

Hole No.13

0 - 5	Grey sand	0.2
5 - 10	Brown sand	0.1

Hole No.14

0 - 5	Brown sand	0.4
5 - 10	Brown sand	0.4
10 - 15	Brown sand	0.1

TABLE 31

LINE 97

Hole No.	Depth	Colour	%H.M.
1	15'	G/Br/Wh	0.9
2	10'	Br	0.5
3	5'	Gr	<0.1

WRIGHTS SURVEY LINE 97

Hole No.1

ft		
0 - 5	Grey sand	1.1
5 - 10	Brown sand	0.9
10 - 15	White sand	0.8

Hole No.2

0 - 5	Brown sand	0.7
5 - 10	Brown sand	0.3

Hole No.3

0 - 5	Grey sand	<0.1

TABLE 32

LINE 98

Hole No.	Depth	Colour	%H.M.
1	10'	Y/Wh	1.4
2	15'	Y/Wh	3.2
3	10'	Br	2.0
4	5'	Gr	1.0
5	5'	Gr	0.6
6	5'	Gr	0.9
7	5'	Gr	0.2
8	10'	Gr	<0.1

WRIGHTS SURVEY LINE 98

Hole No.1

ft		
0 - 5	Yellow sand	1.4
5 - 10	White sand	1.3

Hole No.2

0 - 5	Yellow sand	5.5
5 - 10	Yellow sand	3.2
10 - 15	White sand	1.1

Hole No.3

0 - 5	Brown sand	2.1
5 - 10	Brown sand	1.9

Hole No.4

0 - 5	Grey sand	1.0

Hole No.5

0 - 5	Grey sand	0.6

Hole No.6

0 - 5	Grey sand	0.9

Hole No.7

0 - 5	Grey sand	0.2

Hole No.8

0 - 5	Grey sand	0.1
5 - 10	Grey sand	<0.1

TABLE 34

LINE 99

Hole No.	Depth	Colour	%H.M.
1	90'	Y/Wh/Gr	1.4
2	10'	Br/Gr	0.8
3	15'	Br	0.7
4	5'	Gr	0.3
5	10'	Gr	0.2
6	5'	Gr	< 0.1
7	10'	Gr	< 0.1

WRIGHTS SURVEY LINE 99

Hole No.1

ft		
0 - 5	Yellow sand	0.9
5 - 10	White sand	4.1
10 - 15	White sand	2.5
15 - 20	White sand	1.3
20 - 25	Grey sand	1.3
25 - 30	Grey sand	0.8
30 - 35	Grey sand	0.2
35 - 40	Grey sand	<0.1

Hole No.2

0 - 5	Brown sand	0.7
5 - 10	Grey sand	0.8

Hole No.3

0 - 5	Brown sand	0.6
5 - 10	Brown sand	0.7
10 - 15	Brown sand	0.8

Hole No.4

0 - 5	Grey sand	0.3

Hole No.5

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.2

Hole No.6

0 - 5	Grey sand	<0.1

Hole No.7

0 - 5	Grey sand	<0.1
5 - 10	Grey sand	<0.1

TABLE 35

LINE 100

Hole No.	Depth	Colour	%H.M.
1	25'	Y/Wh	2.3
2	15'	Wh/Gr	5.3
3	10'	Gr	0.8
4	10'	Gr	<0.1
5	15'	Br/Gr	0.3
6	5'	Gr	<0.1
7	15'	G/Br	0.2
8	10'	Gr	0.3
9	15'	Br/Gr	0.2

WRIGHTS SURVEY LINE 100

Hole No.1

ft		
0 - 5	Yellow sand	2.3
5 - 10	Yellow sand	3.4
10 - 15	Yellow sand	4.2
15 - 20	White sand	0.9
20 - 25	White sand	0.7

Hole No.2

0 - 5	White sand	11.9
5 - 10	White sand	9.6
10 - 15	Grey sand	5.4

Hole No.3

0 - 5	Grey sand	0.8
5 - 10	Grey sand	0.7

Hole No.4

0 - 5	Grey sand	<0.1
5 - 10	Grey sand	<0.1

Hole No.5

0 - 5	Brown sand	0.2
5 - 10	Brown sand	0.3
10 - 15	Grey sand	0.3

Hole No.6

0 - 5	Grey sand	<0.1

Hole No.7

0 - 5	Grey sand	<0.1
5 - 10	Brown sand	<0.1
10 - 15	Brown sand	0.3

Hole No.8

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.3

Hole No.9

0 - 5	Brown sand	0.2
5 - 10	Brown sand	0.2
10 - 15	Grey sand	<0.1

TABLE 36

LINE 1

Hole No.	Depth	Colour	%H.M.
1	10'	Y	3.4
2	5'	Wh	3.1
3	15'	Wh/Gr	0.6
4	10'	Wh/Gr	0.3
5	15'	Br/Gr	0.2
6	15'	Br	0.2
7	5'	Gr	<0.1
8	5'	Gr	<0.1

WRIGHTS SURVEY LINE 1

Hole No.1

ft		
0 - 5	Yellow sand	2.6
5 - 10	Yellow sand	4.2

Hole No.2

0 - 5	White sand	3.1

Hole No.3

0 - 5	White sand	0.8
5 - 10	White sand	0.7
10 - 15	Grey sand	0.3

Hole No.4

0 - 5	White sand	0.2
5 - 10	Grey sand	0.3

Hole No.5

0 - 5	Brown sand	<0.1
5 - 10	Brown sand	<0.1
10 - 15	Grey sand	0.2

Hole No.6

0 - 5	Brown sand	0.2
5 - 10	Brown sand	0.2
10- 15	Brown sand	0.1

Hole No.7

0 - 5	Grey sand	<0.1

Hole No.8

0 - 5	Grey sand	<0.1

TABLE 37

LINE 2

Hole No.	Depth	Colour	%H.M.
1	20'	Y/Br	1.7
2	15'	Br	0.5
3	10'	Gr	0.3
4	15'	Gy/Br	0.1
5	5'	Gr	0.2
6	10'	Gr	0.2
7	5'	Gr	<0.1
8	15'	Gy/Br	0.2

WRIGHTS SURVEY LINE 2

Hole No.1

ft		
0 - 5	Yellow sand	1.8
5 - 10	Brown sand	1.4
10 - 15	Brown sand	2.6
15 -20	Brown sand	0.9

Hole No.2

0 - 5	Brown sand	0.6
5 - 10	Brown sand	0.6
10 - 15	Brown sand	0.3

Hole No.3

0 - 5	Grey sand	0.2
5 - 10	Grey sand	0.3

Hole No.4

0 - 5	Grey sand	<0.1
5 - 10	Brown sand	<0.1
10 - 15	Grey sand	0.2

Hole No.5

0 - 5	Grey sand	0.2

Hole No.6

0 - 5	Grey sand	0.2
5 - 10	Grey sand	<0.1

Hole No.7

0 - 5	Grey sand	<0.1

Hole No.8

0 - 5	Grey sand	<0.1
5 - 10	Brown sand	0.2
10 - 15	Brown sand	0.3

70-613

4746

NARACOOPA RUTILE LTD

PLATE I

ASSAY RESULTS

E. L. 13/66

SB - A

Kenneth McMahon & Partners Pty Ltd

027208

5 cm

LIMIT OF CALCAREOUS DUNES

SBR 0-6

Sheet Index

SB-A	SB-D
SB-B	SB-E
SB-C	

Scale 400' = 1"

70-613

4747

NARACOOPA RUTILE LTD

PLATE II

ASSAY RESULTS

E. L. 13/66

SB - B

Kenneth McMahon & Partners Pty Ltd

027209

5 cm

LIMIT OF CALCAREOUS DUNES

SURPRISE BAY

SBL 2·0

SB 33 0·9

0·9

0·8

0·6

SB 27 0·3

0·1

SB 4 0·5

SB 8 0·7

0·8

0·7

0·6

0·6

0·5

LIMIT OF CALCAREOUS DUNES

BASS STRAIT

N

Sheet Index

SB-A	SB-D
SB-B	SB-E
SB-C	

Scale 400' = 1"

70-613

027210

4748

NARACOOPA RUTILE LTD

PLATE III

ASSAY RESULTS

E. L. 13/66

SB – D

Kenneth McMahon & Partners Pty Ltd.

5 cm

SEAL

RIVER

LINE SB 6½

82
0·4
0·5
0·6
0·9
0·5
0·4
0·4
0·3
0·8
0·6
0·6
1·2
1·0
0·9
0·8
0·1
0·7
0·9
1·4
0·5
1·9
1·2
0·3
0·2
0·4
0·8
0·5
0·6
0·6
0·7
1·4
0·5
0·7
1·2
0·4
1·4
0·6
0·9
0·5
0·7
0·9
0·5
0·7
0·6
0·9
0·3
0·3
0·3
0·6
0·4
0·8
0·5

LINE SB 10½

132
0·1
0·1
0·2
0·2
0·2
0·01
0·2
0·4
0·6
0·5
0·3
0·7
0·3
0·4
0·5
0·2
0·1
0·2
0·1
0·8
0·4
0·2
0·1
0·1
0·3
0·3
0·2
0·4
0·4
0·2
0·2
0·3
0·3
0·3
0·2

TN

Sheet Index

SB-A	SB-D
SB-B	SB-E
SB-C	

Scale: 400' = 1"

70-613

4749

NARACOOPA RUTILE LTD

PLATE IV

ASSAY RESULTS

E. L. 13/66

SB - E

Kenneth McMahon & Partners Pty Ltd

027211

5 cm

BIG LAKE

LIMIT OF CALCAREOUS DUNES

MARSH

SEAL BAY

BASS STRAIT

LINE SB 6½

LINE SB 10½

LINE SB M

SB 37 0·1

SB 101 0·1

SB 102 0·1

SB 103 0·1

SB 104 0·1

SB 105 0·1

SB 106 0·1

SB 107 0·1

SB 108 0·1

SB 109 0·1

SB 30 0·2

SB 8 0·8

SB 22 0·2

SB 26 0·4

SB 20 0·5

SB C1 0·1

Sheet Index

SB-A	SB-D
SB-B	SB-E
SB-C	

Scale 400' = 1"

70-613

4750

NARACOOPA RUTILE LTD.

PLATE V

ASSAY RESULTS

E. L. 14/66

YR-A

Kenneth McMahon & Partners Pty. Ltd

027212

5 cm

YELLOW ROCK TOWN RESERVE

DUCK BAY

DUNES

LIMIT OF HIGH

T. N.

Sheet Index

YR-A

YR-B

YR-C

Scale : 400'=1"

70-613

4751

027213

70-613

4752

NARACOOPA RUTILE LTD

PLATE VII

ASSAY RESULTS

E. L. 14/66

YR - C

Kenneth McMahon & Partners Pty Ltd

027214

5 cm

DUNES

HIGH

ROAD

YR 29
6-2

OF

LIMIT

NORTH

PASS

RIVER

MAIN

TN.

Sheet Index

YR-A

YR-B

YR-C

Scale : 400' = 1"

70-613

4753

NARACOOPA RUTILE LTD

PLATE VIII

ASSAY RESULTS

E. L. 9/69

SEB-J

Kenneth McMahon & Partners Pty. Ltd.

027215

5 cm

LINE 18
150
4.0 38.4 68.2 42.7 40.2 31.0

LINE 14
180
0.7 3.1 24.6 68.3 75.0 49.3 36.6

LINE 10
210
0.8 0.4 86.5 78.1 84.3 50.3 44.7 42.3

LINE 6
210
1.3 35.0 95.1 87.8 72.7 60.1 60.4 61.7

S E A

E L E P H A N T

B A Y

T.N.

Sheet Index

SEB-A	SEB-B
SEB-C	SEB-D
SEB-E	SEB-F
SEB-G	SEB-H
SEB-I	SEB-J

Scale: 1"=100'

70-613

4754

NARACOOPA RUTILE LTD

PLATE IX

ASSAY RESULTS

E. L. 9/69

SEB-H

Kenneth McMahon & Partners Pty Ltd

027216

5 cm

SEA

ELEPHANT

BAY

210 LINE 35 0
3.0 34.5 16.5 5.1 12.8 4.4 14.6

180 LINE 31 0
13.4 40.8 57.9 18.0 0.5 9.2 36.2

150 LINE 26 0
2.6 60.6 54.6 31.8 23.2 10.6

150 LINE 22 0
2.9 28.0 50.4 20.3 46.0 13.4

T.N

Sheet Index

SEB-A	SEB-B
SEB-C	SEB-D
SEB-E	SEB-F
SEB-G	SEB-H
SEB-I	SEB-J

Scale: 1"=100'

70-613

4755

NARACOOPA RUTILE LTD.

PLATE X

ASSAY RESULTS

E.L. 9/69

SEB-B

Kenneth Mc Mahon & Partners Pty. Ltd.

027217

5 cm

LINE 83

2250
1·3 2·0 1·5 2·1 2·2 1·3 1·1 0·9 0·6 0·6 2·5 1·3 0·8 0·6 0·4 0·5 0·6 0·5 0·5 1·0 0·7 150 1·5

LINE 67

2750
0·6 0·8 0·9 2·1 0·3 0·3 0·5 1·1 0·6 0·7 0·7 1·2 0·5 0·5 0·5 0·5 1·9 1·1 0·5 0·3 0·8 0·5 0·6 0·6 0·7 150 0·5 0·8

LINE 51

3925
1·2 2·8 7·6 0·9 1·4 0·9 0·8 1·0 10·0 0·7 0·7 0·8 5·2 1·2 5·2 5·1 0·8 0·9 1·0 3·4 2·8 2·5 3·1 5·2 0·8 (8·5) 9·1 1·0 1·3 1·0 1·8 0·8 (4·0) 2·0 0·2 0·8 1·0 0·5 0·5 0·7 (1·2) 1·5 0·5 0·8 1·4 125

LINE 51

SEA

ELEPHANT

BAY

CREEK

POOLTA CREEK

LAPPA CREEK

RAFFERTY CREEK

TN

Sheet Index

SEB-A

SEB-B

Scale · 400'=1"

70-613

4756

NARACOOPA RUTILE LTD.

PLATE XI

ASSAY RESULTS

E.L. 9/69

SEB-A

Kenneth McMahon & Partners Pty. Ltd.

027218

5 cm

ELDORADO CREEK

LINE 131

0·1 0·1 0·1 0·1 0·1 0·3 0·2 0·1 0·3 131

163

147

LINE 115

1·4 0·2 0·2 0·2 0·7 0·1 0·1 <0·1 <0·1 <0·1 <0·1 <0·1 <0·1 <0·1 <0·1 <0·1 <0·1 1025

99

SEA ELEPHANT BAY

FRAZER RIVER

T.N.

Sheet Index

SEB-A

SEB-B

Scale: 1400' = 1"

70-613

4757

NARACOOPA RUTILE LTD.

PLATE XII

WRIGHTS ASSAY RESULTS

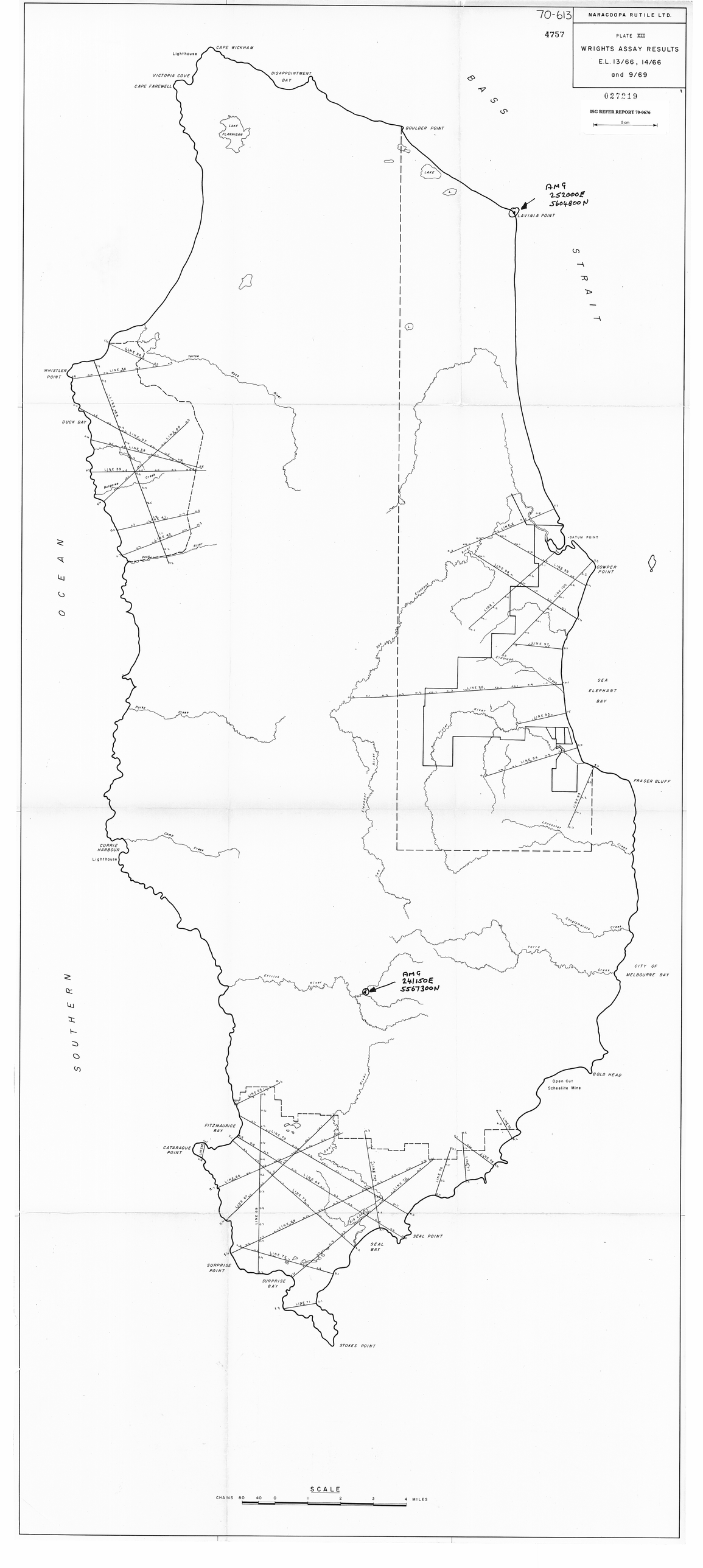
E.L. 13/66, 14/66

and 9/69

027219

ISG REFER REPORT 70-0676

5 cm



SCALE

CHAINS 80 40 0 1 2 3 4 MILES