1293

1293

S

N

800 ft

600 ft

400 ft

200 ft

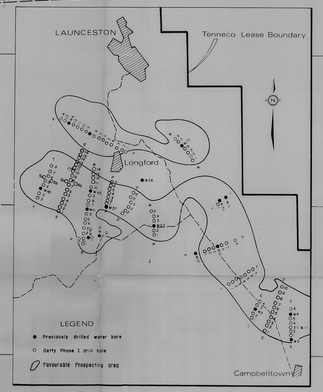
0 (Sea Level)

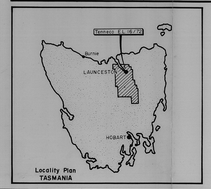
200 ft

400 ft

W80	W37	P-1	P-2	P-3	P-4	P-5	P-6	P-7
517' A.S.L.	517' A.S.L.	524' A.S.L.	507' A.S.L.	527' A.S.L.	514' A.S.L.	501' A.S.L.	471' A.S.L.	458' A.S.L.
T.D.470'	T.D.490'	T.D.500'	T.D.490'		T.D.500'	T.D.500'	T.D.510'	T.D.495'

LOWER LIMIT OF RECENT OXIDATION





LEGEND

Recent Alluvium	Sand	Basalt —	TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite —	JURASSIC
Clay	Gravel	Sandstone —	TRIASSIC
Silt	Wood, Peat, Carbonaceous Material		

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

150'
100'
50'

1600' 1200' 800' 400'

HORIZONTAL SCALE
1 Inch = 400 Feet

5 cm

692013

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

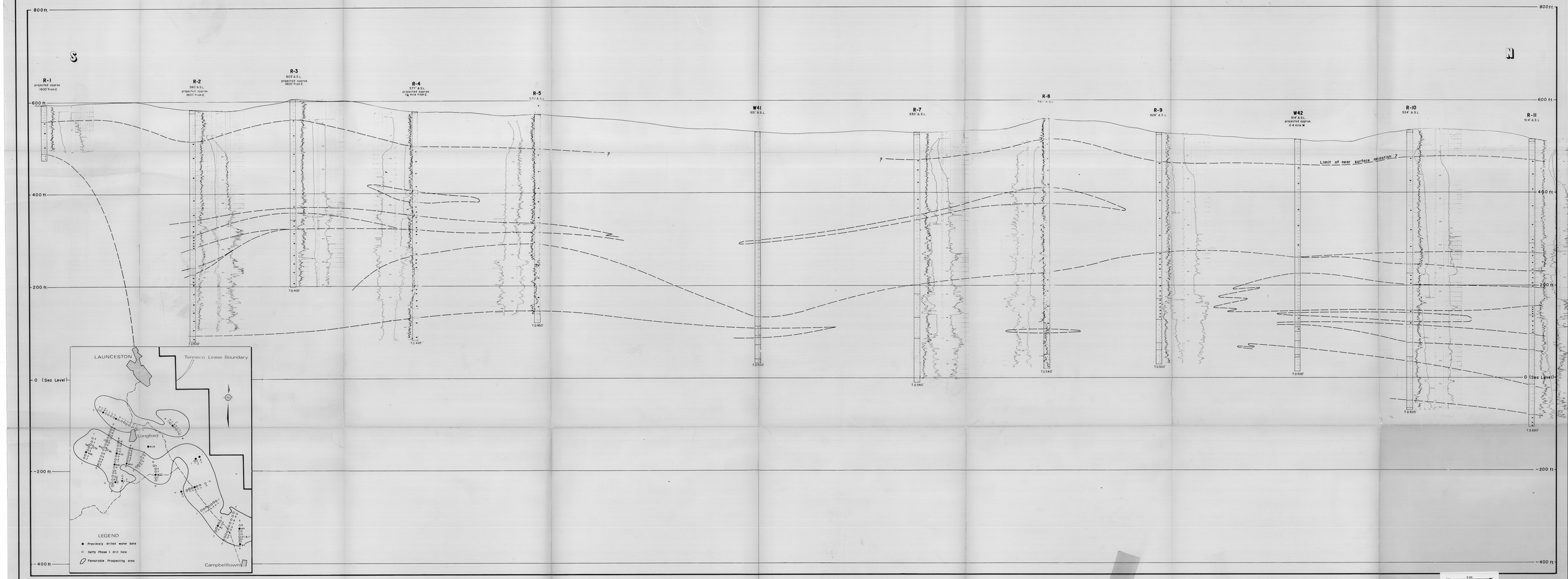
GEOLOGICAL CROSS SECTION P

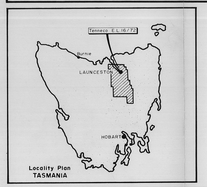
Author G.Miller / T.Middleton	Scale: As shown
Drawn D.Anderson	Date: Feb. 73
Revised	FIGURE No. 16

9411 73-939 1293

1293 10/LAU/42

1294





Locality Plan
TASMANIA

LEGEND

Recent Alluvium	Sand	Basalt — TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite — JURASSIC
Clay	Gravel	Sandstone — TRIASSIC
Silt	Wood, Peat, Carbonaceous Material	

SCALE

150'
100'
50'

VERTICAL SCALE
1 Inch = 50 Feet

2000' 1500' 1000' 500'

HORIZONTAL SCALE
1 Inch = 500 Feet

5 cm

692044

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TENNECO JOINT VENTURE

E.L. 16/72

GEOLOGICAL CROSS SECTION R

Looking west

Author: G. Miller / T. Middleton	Scale: As shown
Drawn: D. Anderson	Date: Jan. 73
Revised:	FIGURE No. 17

1294 10/LAU/43

Q47/1 73-939 1294

1295

1295

S

N

800 ft.
600 ft.
400 ft.
200 ft.
0 (Sea Level)
-200 ft.
-400 ft.

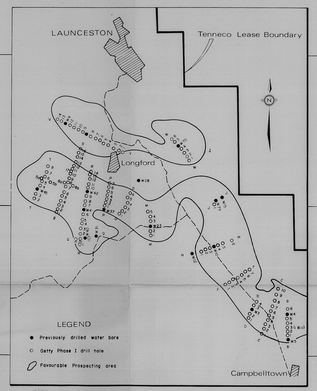
R-11
514' A.S.L.
T.D. 620'

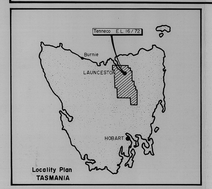
R-12
573' A.S.L.
T.D. 455'

R-13
593' A.S.L.
T.D. 510'

R-14
593' A.S.L.
T.D. 500'

W46
550' A.S.L.
PROJECTED approx. ¼ mile from E.
T.D. 1400'





LEGEND

Recent Alluvium	Sand	Basalt — TERTIARY (Pliocene)	
Ironstone Gravel Laterite	Arkosic Sand	Dolerite — JURASSIC	
Clay	Gravel	Sandstone — TRIASSIC	
Silt	Wood, Peat, Carbonaceous Material		

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

HORIZONTAL SCALE
1 Inch = 400 Feet

692045

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TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION
R

Author: G Miller / T Middleton	Scale: As shown
Drawn: D Anderson	Date: Feb 73
Revised:	FIGURE No. 18

1295

Q4711 73-939

10/LAU/43a

1296

1296

S

N

800 ft

600 ft

400 ft

200 ft

0 (Sea Level)

200 ft

400 ft

S-1
577' A.S.L.
T.D. 545'

S-2
550' A.S.L.
T.D. 530'

S-3
574' A.S.L.
T.D. 495'

S-4
590' A.S.L.
T.D. 495'

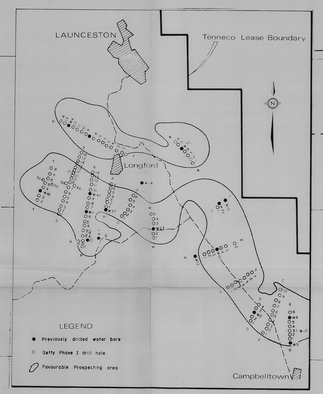
S-5
597' A.S.L.
T.D. 495'

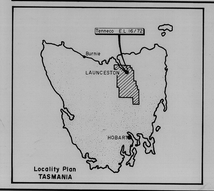
S-6
600' A.S.L.
T.D. 495'

S-7
537' A.S.L.
T.D. 500'

S-8
524' A.S.L.
T.D. 500'

S-9
544' A.S.L.
T.D. 495'





LEGEND

Recent Alluvium	Sand	Basalt	—	TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite	—	JURASSIC
Clay	Gravel	Sandstone	—	TRIASSIC
Silt	Wood, Peat, Carbonaceous Material			

SCALE

HORIZONTAL SCALE
1 Inch = 400 Feet

VERTICAL SCALE
1 Inch = 50 Feet

5 cm

692046

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION S

Author G. Miller / T. Middleton	Scale As shown
Drawn D. Anderson	Date Feb. 73
Revised	FIGURE No. 19

1296

10/LAU/44

Q4711 73-939 1296

1297

1297

S

N

S-10
577' A.S.L.

S-17
607' A.S.L.

S-11
563' A.S.L.

S-12
600' A.S.L.

S-13
564' A.S.L.

S-14
594' A.S.L.

S-15
564' A.S.L.

S-16
567' A.S.L.
projected 690' from N

800 ft

600 ft

400 ft

200 ft

0 (Sea Level)

-200 ft

-400 ft

Lower limit of recent oxidation

T.D. 500'

T.D. 450'

T.D. 495'

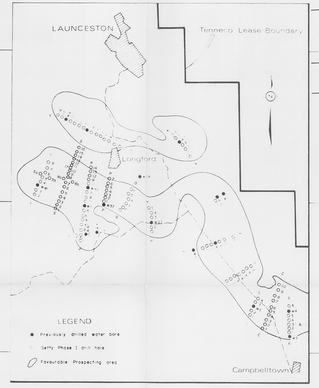
T.D. 495'

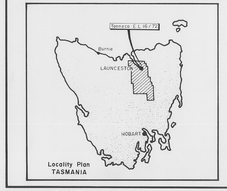
T.D. 500'

T.D. 455'

T.D. 430'

T.D. 405'





LEGEND

Recent Alluvium	Sand	Basalt —	TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite —	JURASSIC
Clay	Gravel	Sandstone —	TRIASSIC
Silt	Wood, Peat, Carbonaceous Material		

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

1600' 1200' 800' 400'

HORIZONTAL SCALE
1 Inch = 400 Feet

5cm

6920417

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION
S

Author: G. Miller / T. Middleton	Scale: As shown
Drawn: D. Anderson	Date: Feb. 73
Revised:	FIGURE No. 20

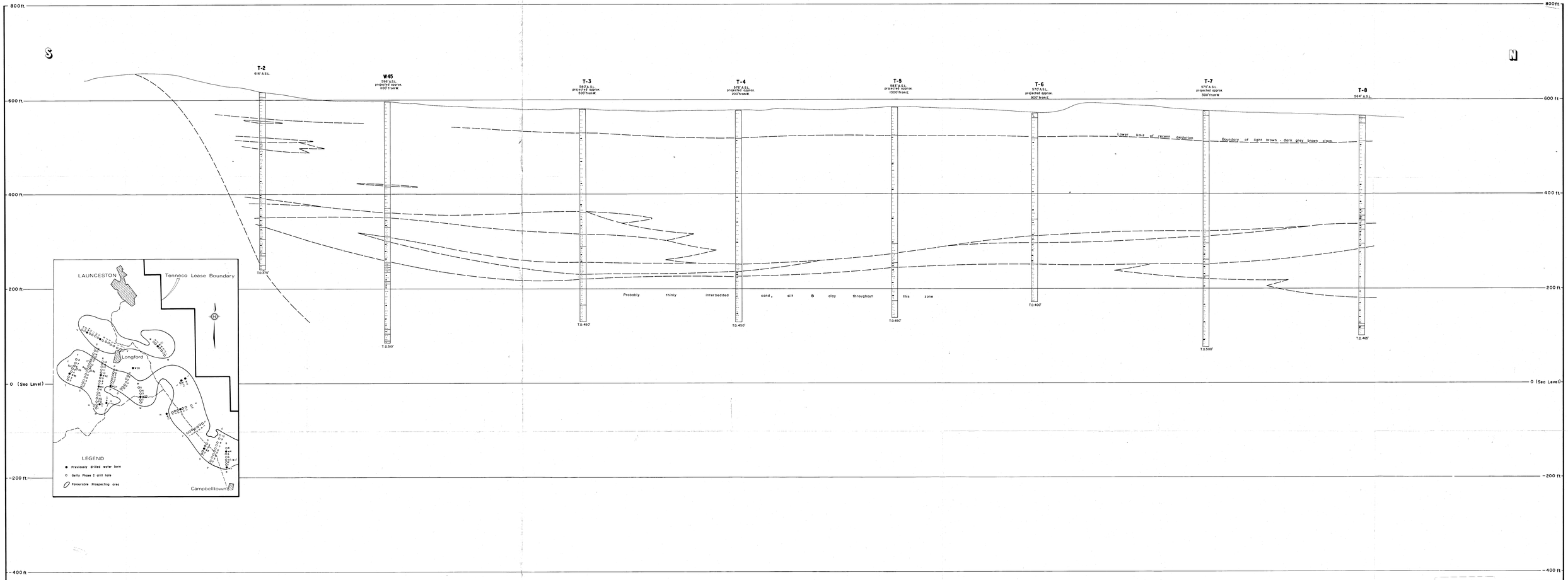
1297

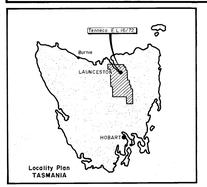
10/LAU/449

1297

1298

1298





LEGEND

- Recent Alluvium
- Ironstone Gravel Laterite
- Clay
- Silt
- Sand
- Arkosic Sand
- Gravel
- Wood, Peat, Carbonaceous Material
- Basalt — **TERTIARY (Pliocene)**
- Dolerite — **JURASSIC**
- Sandstone — **TRIASSIC**

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

150'
100'
50'

1600' 1200' 800' 400'

HORIZONTAL SCALE
1 Inch = 400 Feet

692048

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION T

Author: G.Miller / T.Middleton	Scale: As shown
Drawn: D.Anderson	Date: Feb 73
Revised:	FIGURE No. 21

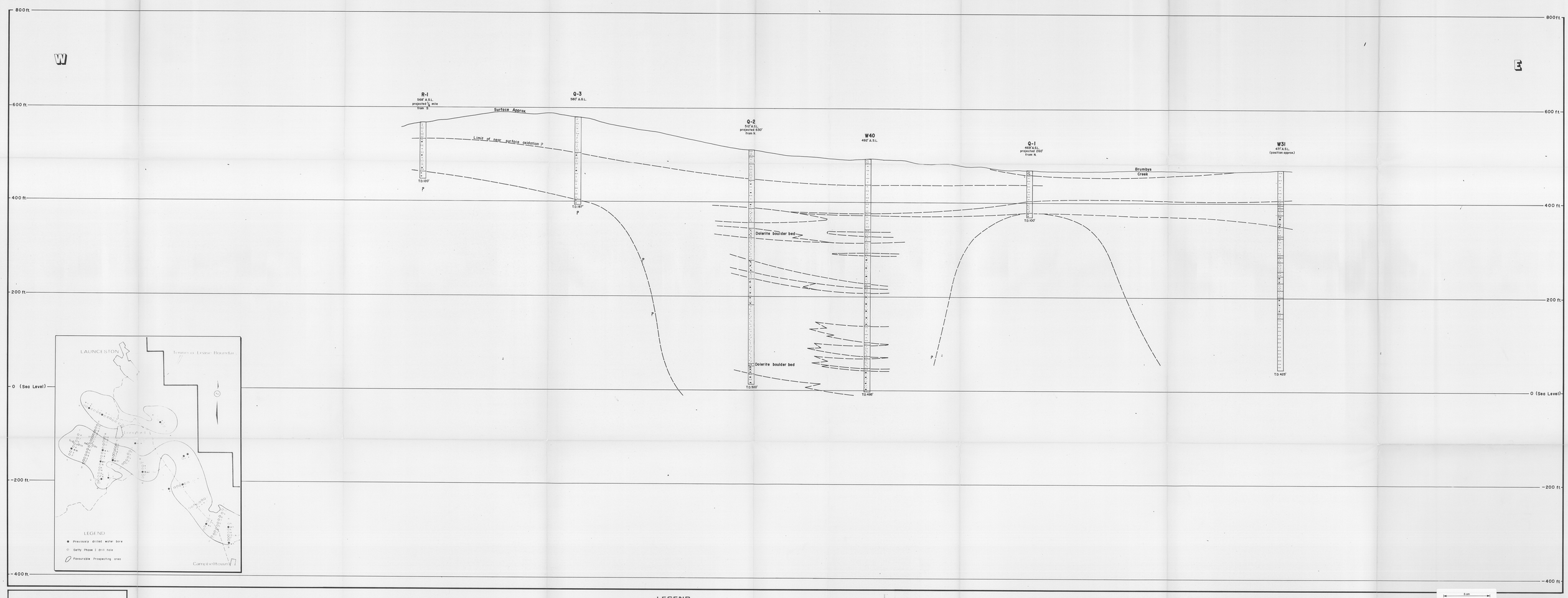
ID/LAU/46

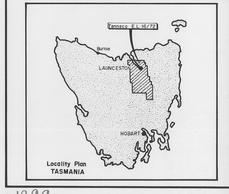
9411 73-939

1298

1298

1299





Locality Plan
TASMANIA

LEGEND

Recent Alluvium	Sand	Basalt — TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite — JURASSIC
Clay	Gravel	Sandstone — TRIASSIC
Silt	Wood, Peat, Carbonaceous Material	

SCALE

150'
100'
50'
VERTICAL SCALE
1 Inch = 50 Feet

1600' 1200' 800' 400'
HORIZONTAL SCALE
1 Inch = 400 Feet

5 cm

692049

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TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION
Q

Author: G. Miller / T. Middleton	Scale: As shown
Drawn: D. Anderson	Date: Feb. '73
Revised:	FIGURE No. 22

1299

Qwf/1 73-939 1299 10/LAU/46

1300

1300

NW

SE

800 ft.

600 ft.

400 ft.

200 ft.

0 (Sea Level)

200 ft.

400 ft.

V-8

V-7
516' A.S.L.
T.D. 210'

V-6
503' A.S.L.
T.D. 230'

V-5
490' A.S.L.
T.D. 210'

Dolerite Outcrop

V-4(iii)
470' A.S.L.
T.D. 45'

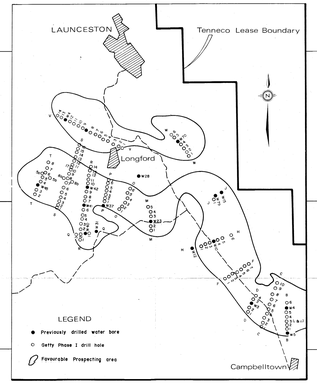
V-4B
467' A.S.L.
T.D. 495'

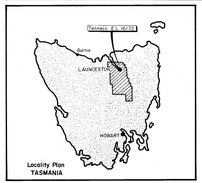
V-3
467' A.S.L.
T.D. 525'

South Esk River

V-2
450' A.S.L.
T.D. 330'

V-1
477' A.S.L.
T.D. 320'





LEGEND

- Recent Alluvium
- Ironstone Gravel Laterite
- Clay
- Silt
- Sand
- Arkosic Sand
- Gravel
- Wood, Peat, Carbonaceous Material
- Basalt — TERTIARY (Pliocene)
- Dolerite — JURASSIC
- Sandstone — TRIASSIC

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

HORIZONTAL SCALE
1 Inch = 400 Feet

692050

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TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION V

Author: G. Miller / T. Middleton	Scale: As shown
Drawn: D. Anderson	Date: Feb. '73
Revised:	FIGURE No. 23

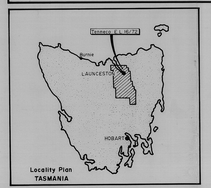
1300 10/LAU/67

Offn File 73-939

1300

1301





Locality Plan
TASMANIA

LEGEND

Recent Alluvium	Sand	Basalt — TERTIARY (Pliocene)
Ironstone Gravel Laterite	Arkosic Sand	Dolerite — JURASSIC
Clay	Gravel	Sandstone — TRIASSIC
Silt	Wood, Peat, Carbonaceous Material	

SCALE

150'
100'
50'
VERTICAL SCALE
1 Inch = 50 Feet

1600' 1200' 800' 400'
HORIZONTAL SCALE
1 Inch = 400 Feet

5 cm

692051

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

GEOLOGICAL CROSS SECTION V

Author: G. Miller / T. Middleton	Scale: As shown
Drawn: D. Anderson	Date: Feb. '73
Revised:	FIGURE No. 24

1301

10/LAU/47a

1301

1302

NW

SE

800 ft

600 ft

400 ft

200 ft

0 (Sea Level)

-200 ft

-400 ft

W-6
529' A.S.L.
T.D. 25'

W-5
509' A.S.L.
T.D. 35'

W70
516' A.S.L.
T.D. 127'

W-4
559' A.S.L.
T.D. 314'

Surface- approx

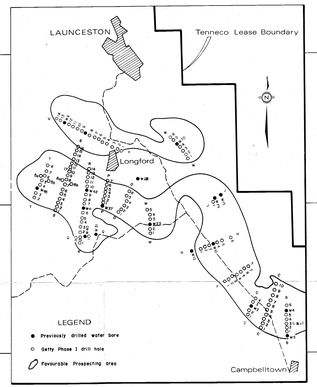
Intercalated sediments

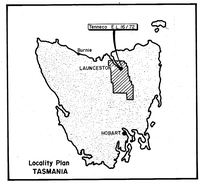
W-3
559' A.S.L.
T.D. 58'

W-2
546' A.S.L.
T.D. 83'

W-1
505' A.S.L.
T.D. 147'

W65
517' A.S.L.
position approx.
T.D. 152'





LEGEND

- Recent Alluvium
- Ironstone Gravel Laterite
- Clay
- Silt
- Sand
- Arkosic Sand
- Gravel
- Wood, Peat, Carbonaceous Material
- Basalt — TERTIARY (Pliocene)
- Dolerite — JURASSIC
- Sandstone — TRIASSIC

SCALE

VERTICAL SCALE
1 Inch = 50 Feet

HORIZONTAL SCALE
1 Inch = 400 Feet

692652

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE
E.L. 16/72

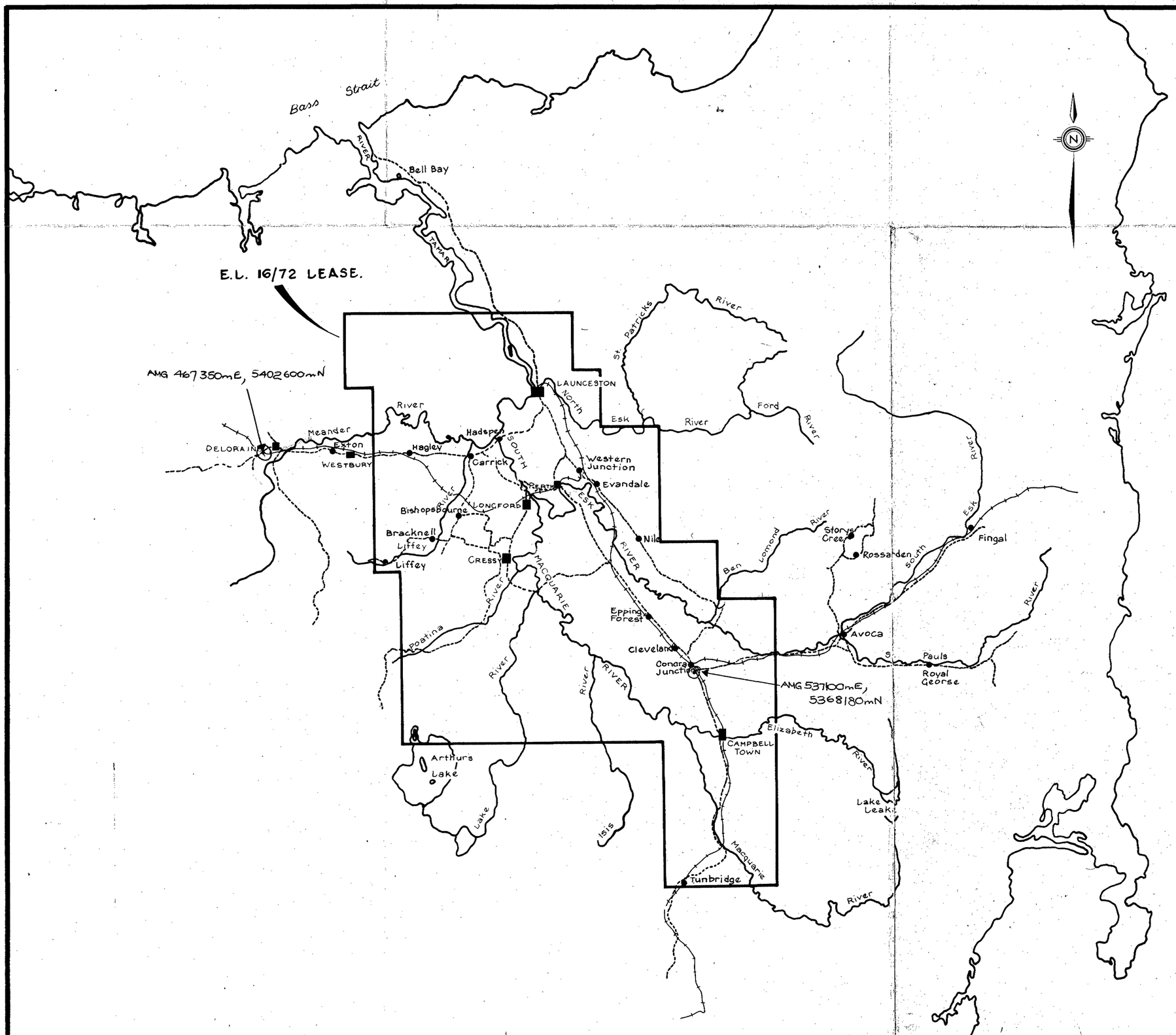
GEOLOGICAL CROSS SECTION W

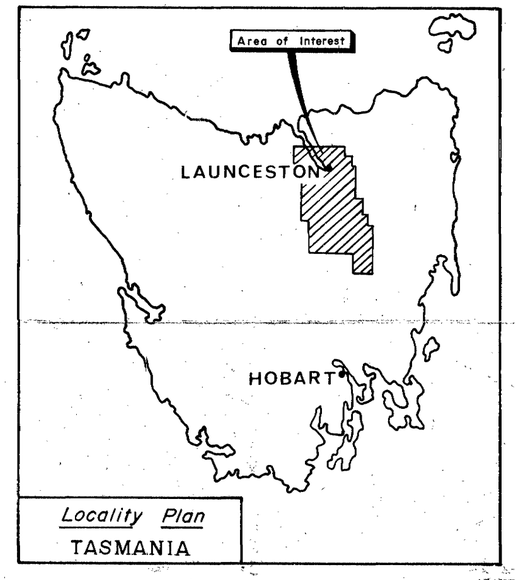
Author: G.Miller / T.Middleton	Scale: As shown
Drawn: D.Anderson	Date: Feb. 73
Revised:	FIGURE No. 25

1302

73-989 Getty

10/LAU/48





South Esk System Catchment Boundary.
Macquarie River " "
Lake River " "
Meander River " "
North Esk System " "

AMG REFERENCE POINTS ADDED

5 cm

692053
App I 73-939

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE EL 16/72

LOCALITY MAP SHOWING CATCHMENT AREAS

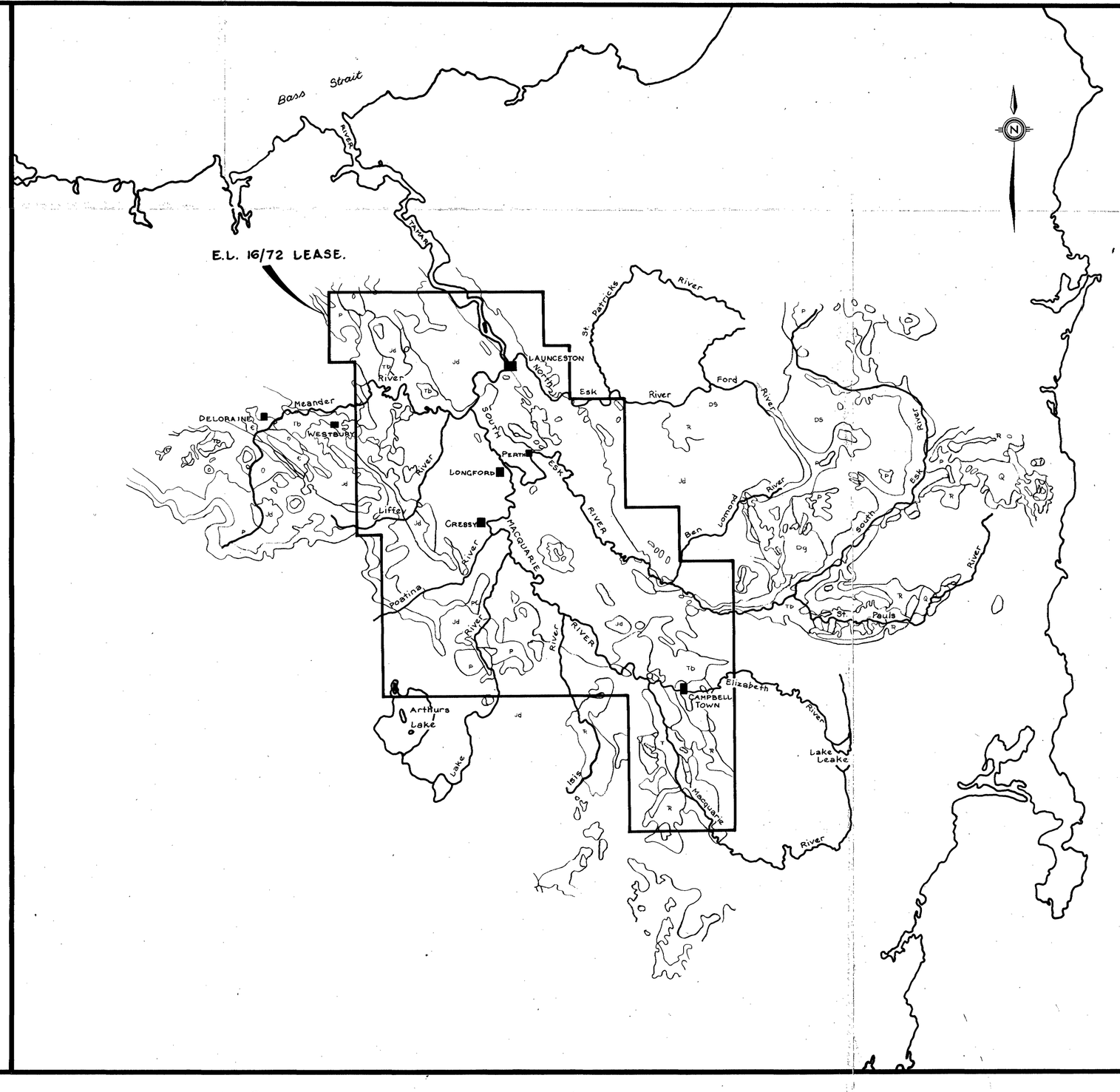
Author T. MIDDLETON.	Scale 1: 500,000
Drawn M.E. FILEHR	Date MARCH 1973
Revised	FIGURE NO.

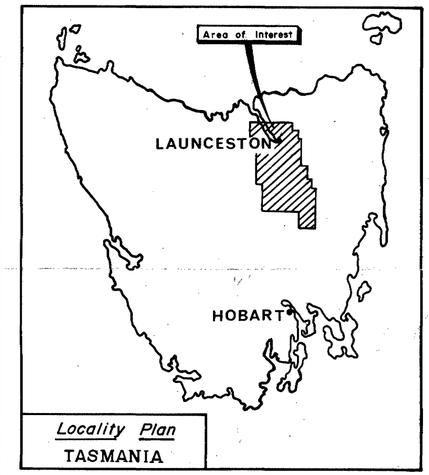
10/LAU/49

GEOLOGICAL REFERENCE

Q	QUATERNARY	
T	TERTIARY (Non-marine)	
R	TRIASSIC	
P	PERMIAN	
DS	DEVONIAN and SILURIAN	
O	ORDIVICIAN	
€	CAMBRIAN	
p€	PRECAMBRIAN (Undifferentiated)	
Tb	TERTIARY	Basalt
Jd	JURRASSIC	Dolerite
Dg	DEVONIAN	Granite

IGNEOUS





South Esk System Catchment Boundary.
Macquarie River " "
Lake River " "
Meander River " "
North Esk System " "

5 cm

692054

App II 73-939

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GETTY OIL DEVELOPMENT COMPANY LIMITED

TENNECO JOINT VENTURE EL 16/72

LOCALITY MAP SHOWING GEOLOGY

Author: T. MIDDLETON.	Scale: 1:500,000
Drawn: M.E. FLEHR	Date: MARCH 1973
Revised:	FIGURE NO.

10/LAU/50

OPEN FILE 73-939 4/1 1304

73-939 Q47/1

LAUNCESTON BASIN

005

BORE No.1

632055

DEPTH	STRATIGRAPHIC DESCRIPTION
0-110	Missing
110-120	Mudstone, medium brown, fine textured, well compacted.
120-130	Mudstone, medium brown, minor yellow, fine textured, well compacted, scattered finely divided mica.
130-140	Mudstone, as 120-130 above.
140-145	Mudstone, medium brown and yellow and orange, occasional light blue-grey, finely textured, well compacted, rare finely divided mica, rare carbonaceous plant remains.
145-150	Mudstone, medium to dark brown and rusty brown finely textured, well compacted.
150-155	Mudstone, as 145-150 above.
155-160	Mudstone, as 145-150 above, plus rare to scattered carbonaceous plant fragments.
160-165	Mudstone, as 145-150 above.
165-170	Mudstone, medium to dark chocolate brown, finely textured, well compacted, rare scattered carbonaceous plant remains.
170-175	Mudstone, as 145-150 above.
175-180	Mudstone, as 145-150 above.
180-185	Mudstone, as 145-150 above.
185-190	Mudstone, as 145-150 above.
190-195	Mudstone, as 145-150 above.
195-200	Mudstone, as 145-150 above.
200-205	Mudstone, as 145-150 above. Few bright orange clay inclusions.
205-210	Mudstone, as 145-150 above.
210-215	Mudstone, as 145-150 above.
215-220	Mudstone, as 145-150 above, except a great proportion of orange.
220-225	Mudstone, as 145-150 above.
225-230	Mudstone, as 145-150 above.
230-235	Mudstone, as 145-150 above.
235-240	Mudstone, as 145-150 above, orange clay inclusions slightly more common.
240-245	Mudstone, as 145-150 above
245-250	Mudstone, as 145-150 above

BORE No.1

DEPTH	STRATIGRAPHIC DESCRIPTION
250-255	Silty mudstone, medium brown, white, coarsely textured, moderately to well compacted, scattered red, brown, grey and white quartz and lithic silt fragments, white and brown clay matrix.
255-260	Silt, white and brown, coarsely textured, moderately compacted, common clear quartz and grey, brown, orange and black lithic grains set in white clay matrix.
260-265	Silt, as 260-265 above, except scattered large brown clay inclusions.
265-270	Silt, as 265-270 above.
270-275	Silt, as 265-270 above.
275-280	Silt, as 265-270 above, except becoming more sandy.
280-285	Silt, as 280-285 above.
285-290	Silt, as 280-285 above, plus scattered carbonaceous grains - 5%.
290-295	Sandy silt, very coarsely textured, medium brown and white, clear, grey and white silt size quartz set in white and light brown clay and matrix, loosely compacted.
295-300	Silt, as 280-285 above.
300-305	Sandy silt, as 295-300 above, except white, brown and orange clay matrix is abundant.
305-315	Sandy silt, as 295-300 above.
315-320	Sandy clay, medium brown speckled white, scattered clear quartz, fine grained, set in brown and white clay matrix.
320-325	Silty mudstone, medium brown, scattered white, coarse textured, loosely to moderately compacted, scattered clear fine grained quartz set in white and brown clay matrix.
325-330	Sandy silt, medium brown, coarsely textured with fine to coarse grains of white clear quartz set in a brown clay and silt matrix, loosely to moderately compacted.
330-335	Silty sand, clear, minor white (vein) and red and orange, fine grained, sub-angular, medium sorted quartz, set in brown silty matrix, loosely to moderately compacted, rare minute carbonaceous fragments.
335-340	Silty sand, as 330-335 above.
340-345	Silty sand, as 330-335 above.
345-350	Sandy silt, finely grained of clear white (vein) and minor brown clay and black lithic grains set in brown clay and silty matrix, fairly loosely compacted.
350-355	Sandy silt, as above except quartz grains more abundant. White fragments of felspar?

QH7/1 73-939
007

BORE no.1 692057

DEPTH	STRATIGRAPHIC DESCRIPTION
355-360	Sandy silt, as 330-335 above.
360-365	Sandy silt, as 330-335 above.
365-370	Silt, light to medium brown and grey, coarsely textured, loosely compacted, common fine grains of clear, white, occasional orange, quartz set in light brown silty matrix, scattered orange silty inclusions and rare carbonaceous fragments.
370-375	Silty sand, clear, light brown, fine grained, medium to poorly sorted, sub-angular to sub-rounded quartz, very dirty, common brown and white silty interstitial material, scattered orange silty inclusions, minor number of grains stained orange - 1%.
375-380	Sandy silt, mid brown, clear, white, fine grained quartz set in clay and silt matrix, rare to scattered carbonaceous fragments, minor orange silt inclusions, loosely compacted.
380-385	Silty sand, clear, light brown, minor orange, very fine to medium grained, sub-angular, poorly sorted quartz, very dirty, common brown and white clayey and silty interstitial material, scattered white clay fragments, scattered to rare carbonaceous fragments, scattered yellow and orange clay inclusions, loosely compacted.
385-390	Clayey sand, as 380-385 above, except brown clay matrix more abundant.
390-395	Silty sand, as 380-385 above.
395-400	Silty sand, medium brown, clear and orange, very fine to fine grained, sub-angular to sub-rounded, medium to poorly sorted, quartz, very dirty, common brown and white silty interstitial material, common lithic white, yellow, orange and brown clay and silt particles, rare carbonaceous fragments, loosely compacted.
400-405	Silty sand, as 395-400 above.
405-410	Silty sand, as 395-400 above.
410-415	Silty sand, as 395-400 above.
415-420	Sandy silt, as 395-400 above.
420-425	Clay, light grey, fine textured, moderately compacted.
425-430	Sandy silt, as 415-420 above.
430-435	Sandy silt, as 415-420 above.
435-440	Sandy silt, as 415-420 above.
440-445	Sandy silt, as 415-420 above.
445-450	Silty mudstone, medium grey, coarse textured, moderately compacted, scattered fine grained clear quartz and red, brown, white clay lithic fragments set in a medium grey matrix, rare scattered carbonaceous fragments.
450-455	Silty mudstone, as 445-450 above.

All samples : S/35/35/0

Ph71/1 73-939
000

BORE No. 1A

692058

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sand, bright orange brown, yellow, brown, red and clear, very fine grained to fine grained, poorly sorted, sub-angular to sub-rounded, quartz, dirty, common reddish brown silty interstitial material, rare minute carbonaceous fragments. Grains have reddish brown to dark brown staining on 95% of grains. Rare to scattered shiny black mineral?, very loosely compacted.
5-10	Sand, orange, yellow, clean and white, fine grained, poorly sorted, sub-angular, quartz, very dirty, common, yellow, light green, orange red waxy clay and silty interstitial material, rare carbonaceous and lithic fragments, nearly all quartz grains, slightly stained yellow or orange, friable, loosely compacted.
10-15	Sandy silt, yellow, brown, orange, white silt size quartz, sub-angular to sub-rounded, poorly sorted, dirty, common, light yellow clay and silty interstitial material, minor minute carbonaceous material, loosely compacted.
15-20	Silty sand, yellow, brown, clear white, very fine grained, poorly sorted, sub-angular, sub-rounded, quartz, dirty, common yellow clay and silty interstitial material. 85% of grains have yellow and orange staining, loosely compacted.
20-25	Silty sand, as 15-20 above. 40 to 50% of grains stained.
25-30	Silty sand, as 15-20 above. 30 to 40% of grains stained, rare orange and dark mineral, sudden change to ...
30-35	Clay, mottled yellow and light bluish grey, rare very finely divided mica, occasionally angular quartz fragments up to 1/4" diameter, and bright red orange clay inclusion.
35-40	Clay, light yellowish brown, medium compacted finely textured.
40-45	Clay, light yellow brown, medium textured, medium compacted, scattered medium to coarse grains of poorly sorted sub-angular quartz, grey quartzite, red granitic material and dark green grey dolerite?
	Mudstone, medium grey, finely textured, compacted, scattered inclusions of yellow brown silty lenses, sand grains.
50-55	Mudstone, medium to dark chocolate brown, medium textured, well compacted, scattered finely divided mica.
55-60	Mudstone, as 50-55 above, but mica is rare, less inclusions.
60-65	Mudstone, as 55-60 above.
65-70	Mudstone, as 55-60 above.
70-75	Mudstone, as 55-60 above.
75-80	Mudstone, medium brown, fine to medium textured, medium compaction rare to scattered, finely divided mica.
80-85	Mudstone, as 75-80 above.
85-90	Mudstone, as 75-80 above. Scattered light brown inclusions.

001

BORE No. 1A

692059

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Mudstone, medium to dark brown, medium textured, medium compacted, rare finely divided mica.
95-100	Mudstone, as 90-95 above.
100-105	Mudstone, as 90-95 above.
105-110	Mudstone, as 90-95 above. Rare, coarsely textured fragments scattered with clay fragments.
110-115	Mudstone, as 90-95 above.
115-120	Mudstone, as 90-95 above.
120-125	Mudstone, as 90-95 above.
125-230	Mudstone, as 90-95 above.
130-135	Mudstone, as 90-95 above. Coarse grains of black igneous rock?
135-140	Mudstone, as for 130-135 above.
140-145	Mudstone, as for 130-135 above.
145-150	Mudstone, dark brown, medium textured, moderately compacted, scattered light brown to orange silty inclusions, rare to scattered very dark brown pebbles of igneous material?
150-155	Mudstone, light brown to grey and medium brown, coarsely textured, scattered brown mineral? pebbles.
155-160	Mudstone, as for 130-135 above.
160-163	Clayey sand, fine grained to pebbly, sub-angular to sub-rounded, poorly sorted, smokey white, clear quartz, scattered black and brown igneous pebbles, minor light green metamorphic fragments (green soft mineral with metallic lustre) rare carbonaceous fragments, loosely compacted.

All samples : S/34/34/0

002

Q47/1 73-939

BORE No. 2B

692060

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty sand, yellow, clear white, very fine to medium grained, sub-angular, poorly sorted, quartz, dirty, common yellow and white clay and silty interstitial material, 80% of quartz grain have yellow or orange stain, rare mica, loosely compacted.
5-10	Clay, orange, minor yellow and white, coarsely textured, medium compacted, rare clear brown, orange, red, fine grained quartz grains, inclusions of white waxy clay.
10-15	Clay, reddish brown, slight mottling of waxy orange, yellow and white, coarsely textured, medium compacted, scattered yellow and clear fine grained quartz grain.
15-20	Clay, light yellow, brown, coarsely textured, medium compacted, scattered inclusions of finely grained, sub-angular quartz, some of which are slightly stained yellow.
20-25	Clayey silt, light brown grey, finely textured, medium compacted, silt size grains are clear yellow, minor orange quartz, sub-angular to sub-rounded, medium to poorly sorted, scattered minute carbonaceous specks, set in light grey and yellow clay matrix.
25-30	Silty sand, orange, yellow and clear, finely grained, sub-angular to sub-rounded, quartz, dirty, common, yellow & orange silty and clayey interstitial material, only less than 10% of quartz grains have permanent yellow and orange staining. Occasional 1/8" pebbles and coarse grains of sub-rounded quartz.
30-35	Missing
35-40	Silty clay, yellow brown and light bluish grey mottled, silt size quartz set in white and yellow clay matrix, coarsely textured, medium compacted.
40-45	Silty sand, clear, light yellow, very fine grained, poorly sorted, sub-angular to sub-rounded quartz, dirty, scattered to common white and yellow silty interstitial material, loosely compacted.
45-50	Silty sand, as 40-45 above.
50-55	Sandy silt, light yellow brown, as for 40-45 above except finer grained.
55-60	Sandy silt, clear, white yellow quartz set in a white and sometimes yellow interstitial material, loosely compacted, friable, rare carbonaceous specks.
60-65	Sand, clear, yellow, light brown, occasional orange, finely grained, poorly sorted, sub-angular to sub-rounded quartz, dirty common yellow silty interstitial material, scattered to rare minute carbonaceous fragments, minor orange staining on about 10% of quartz grains, friable, loosely compacted.
65-70	Sand, as 60-65 above, except fine to medium grained.
70-75	Sand, clear, white, occasional orange, very fine grained to fine grained, sub-angular to sub-rounded, poorly sorted quartz, dirty common white silty interstitial material, friable, loosely compacted, scattered minute carbonaceous fragments, rare to scattered orange clay inclusions up to 1/16".

003

BORE No. 2B

692061

DEPTH	STRATIGRAPHIC DESCRIPTION
75-80	Sand, clear, white, very fine grained to fine grained, sub-angular to sub-rounded, poorly sorted quartz, moderately clean, scattered white silty interstitial material, rare minute carbonaceous fragments, friable, loosely compacted.
80-85	Conglomeratic sand, white, clear, fine grained to pebbly, sub-rounded, poorly sorted quartz, fairly clean, scattered white very fine grained and silty interstitial material, scattered minute carbonaceous specks. Occasional angular pebbles up to 1/2" diameter of shale and granite?, friable, loosely compacted.
85-90	Sand, white, clear, grey (smokey) fine to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, rare grey shale fragments, rare minute carbonaceous fragments, dirty, common very fine grained and silty interstitial material friable, loosely compacted.
90-95	Sand, white, clear, yellow, smokey, fine to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, scattered quartz pebbles up to 1/8" diameter, rare minute carbonaceous specks, rare shale and igneous fragments (dolerite?). About 20% of quartz grains have slight orange staining, friable, loosely compacted.
95-100	Sand, as 90-95 above.
100-105	Sand, as 90-95 above except coarse grained, angular to sub-rounded, poorly sorted quartz, fairly clean, scattered white and brown silty interstitial material, friable, loosely compacted.
105-110	as 100-105 above sudden change to :
110-115	Silt, light to medium grey, coarsely textured, medium to loosely compacted, scattered carbonaceous specks, silt size quartz set in grey clay matrix.
115-120	Silty clay, light grey, medium textured, moderately compacted silt size quartz set in light grey clay matrix, scattered very finely divided carbonaceous specks and finely divided mica.
120-125	Silty clay, as 115-120 above.
125-130	Silty clay, as 115-120 above. - Sideritic.
130-135	Silty clay, as 115-120 above.
135-140	Silty clay, as 115-120 above.
140-145	Silty clay, as 115-120 above.
145-150	Silty clay, as 115-120 above.
150-155	Silty clay, medium to dark brown, coarsely textured, loosely compacted, scattered coarse to very coarse grains of sub-angular to sub-rounded, poorly sorted quartz grains, scattered carbonaceous plant fragments.
155-160	Sand, light grey, clear, fine grained, sub-angular to sub-rounded, medium to poorly sorted quartz, dirty, scattered to common white silty interstitial material, scattered carbonaceous specks and fragments, friable, loosely compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
160-165	Mudstone, dark brown, grey, finely textured, moderately well compacted.
165-170	Mudstone, as 160-165 above, except medium grey.
170-175	Mudstone, as 160-165 above, rare finely divided mica.
175-180	Sandy silt, medium grey, coarsely textured, friable, loosely compacted, common clear, white, smokey, sub-angular to sub-rounded, fine to very coarse grained, poorly sorted quartz, dark, igneous rock, rare pink brown granite?, white clay, scattered minute carbonaceous fragments.
180-185	Silty clay, light grey, brown, minor orange, medium textured, moderately compacted, rare finely divided mica, scattered fine grained clear quartz grains.
185-190	Clayey silt, light grey, clear, minor yellow, medium to coarse textured, loosely to moderately compacted, scattered carbonaceous blebs and fragments less than 2%, scattered fine grained quartz, rare finely divided mica.
190-200	Clayey silt, as 185-190 above, but less carbonaceous material.
200-210	Silt, mottled, light grey and brown, white, yellow, orange quartz and other orange mineral? settin gewhite, yellow, orange, silty and clayey matrix, coarsely textured, fairly loosely compacted.

All samples : S/34/34/0

008

Q47/1 73-939

BORE No. 3C

692063

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, mottled brown,red,orange and yellow, medium textured, moderately compacted, waxy in appearance, rare to scattered carbonaceous fragments.
5-10	Silt, red, brown, coarsely textured, loosely to moderately compacted, scattered red, brown and yellow clay inclusions. (sideritic)
10-15	Clay, medium reddish brown, yellow, medium textured, moderately compacted, scattered carbonaceous fragments, occasional inclusions of ironstone pebbles.
15-20	Clay, light blue grey, brown, yellow, scattered pebbles of brownish red ironstone set in white to yellow clay matrix. Rare carbonaceous specks.
20-25	Silty clay, as 15-20 above, except common silt size quartz set in clay matrix.
25-30	Clay, white finely textured, well compacted, minor silt grains.
30-35	Clayey silt, white, coarsely textured, loosely compacted, common silt size quartz grain set in clay matrix, rare yellow grains.
35-40	Clayey silt, light yellow&brown, coarsely textured, loosely compacted.
40-45	Clayey silt, as 35-40 above.
45-50	Clayey silt, as 35-40 above. Becoming less clayey.
50-55	Silt, mottled mid yellow, brown and white, coarsely textured, loosely to moderately compacted. Silt size quartz set in silt and clay matrix.
55-60	Silt, as 50-55 above.
60-65	Sand, white, clear, finely grained, medium sorted, sub-angular to sub-rounded quartz, fairly clean, scattered white silty interstitial material, rare carbonaceous grains, loosely compacted.
65-70	Sand, white, clear, rare smokey, fine to medium grained, sub-angular to sub-rounded, poorly sorted quartz, dirty, common white silty interstitial material, rare mica.
70-75	Pebbly sand, clear, white, rare smokey, very coarse to pebbly, sub-angular, poorly sorted, quartz, rare black igneous pebbles, clean, scattered silty and finely grained sandy interstitial material, loosely compacted.
75-80	Sand, clear,white, smokey, medium to coarsely grained, sub-angular, poorly sorted, quartz, fairly clean, scattered white and light brown silty interstitial material, rare to scattered finely grained carbonaceous fragments, loosely compacted.
80-85	Pebbly sand, clear, smokey and white, coarsely grained to pebbly, poorly sorted, sub-angular to sub-rounded, quartz, clean, scattered white and light brown silty and clayey interstitial material, occasional reddish brown silty interstitial material and slight reddish brown staining, loosely compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
85-90	Silt, light yellow and brown, coarsely textured, medium to loosely compacted, common yellow clay matrix, scattered coarse grains of quartz
90-95	Pebbly sand, clear, smokey, rare orange, fine to coarse grained and pebbly, sub-angular to sub-rounded, poorly sorted quartz, clean, scattered white clay interstitial material, rare reddish brown staining of a few quartz grains, loosely compacted.
95-100	Silt, light grey, coarsely textured, moderately compacted, common clay matrix.
100-105	Silt, as 95-100 above.
105-110	Sand, clear, smokey, medium grained, sub-angular to angular, poorly sorted quartz, dirty, common silty interstitial material, loosely compacted, scattered grains of dark mineral (igneous?)
110-115	Pebbly sand, as 105-110 above except coarsely grained, sub-angular to sub-rounded, poorly sorted.
115-120	Silty sand, clear, smokey, fine grained, sub-angular, poorly sorted quartz, very dirty, common grey silty interstitial material, loosely compacted.
120-125	Silty sand, as 115-120 above, plus rare to scattered orange silty interstitial/staining some of the quartz, rare mica, loosely compacted.
/material	
125-130	Silty sand, light grey, clear white, finely grained, medium sorted sub-angular quartz, very dirty, common grey clay and silty interstitial material, rare mica, minor grains of black and yellow and brown soft mineral, loosely compacted.
130-135	Silty sand, as 125-130 above except finer grained.
135-140	Clay, light grey, coarsely textured, moderately compacted, rare carbonaceous specks and finely divided mica, rare orange clay specks.
140-145	Clay, as 135-140 above.
145-150	Silty sand, white, clear, smokey, fine grained, sub-angular, poorly sorted quartz, very dirty, common grey silty interstitial material, scattered white quartz and clay pebbles, loosely compacted.
150-155	Silt, light grey, coarsely textured, moderately compacted, occasional large carbonaceous wood fragments.
155-160	Sandy silt, as 150-155 above, except fine grained quartz is common, loosely compacted.
160-165	Silty sand, clear, smokey, fine grained, sub-angular, poorly sorted quartz, very dirty, common grey silty interstitial material, rare white clay particles, rare carbonaceous minute fragments, loosely compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
165-170	Silty sand, medium grey, clear, fine grained, sub-angular to sub-rounded, medium to sell sorted quartz, very dirty, common grey silty interstitial material, scattered minute carbonaceous specks, occasional white clay grains, loosely compacted.
170-175	Silty sand, as 165-170 above.
175-180	Silty sand, as 165-170 above, then a formation break to sand (pebbly) clear, grey smokey, very coarse grained and pebbly, sub-angular to angular, poorly sorted quartz, dirty, common light brown fine grained sandy and silty interstitial material, loosely compacted.
180-189	Sand, light brown, clear, smokey, very coarse grained, sub-angular to sub-rounded, medium sorted quartz, dirty, common light brown very fine grained sand and silty interstitial material, occasional orange staining of few quartz grains - less than 1% - loosely compacted.
185-190	Sand, as 180-185 above, except poorly sorted, angular to sub-rounded, rare to scattered carbonaceous fragments.

All samples : S/35/35/0

011

BORE No. 4D (1) 047/1 73-939

692066

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy silt, medium brown, loosely to medium compacted, coarsely textured, clear, white, fine grained quartz and lethic clay fragments set in brown silty matrix.
5-10	Clay, white, loosely to medium compacted, fine textured.
10-15	Clay, light grey, white, as 5-10 above.
15-20	Clay, light grey, white, as 5-10 above.
20-25	Silty clay, coarsely textured, loosely to medium compacted, scattered clear brown fine grained quartz grains, rare finely divided mica, rare minute carbonaceous fragments.
25-30	Clay, cream as 5-10 above.
30-35	Clay, cream as 5-10 above.
35-40	Clay, cream as 5-10 above.
40-45	Clay, light grey and cream as 5-10 above.
45-50	Clay, light brown, white, containing minute black (carbonaceous) specks.
50-55	Clay, white medium textured, loosely to medium textured, minute black specks.
55-60	Clay, as 50-55 above.

All samples : S/35/35/0

BORE No.4D (2)

Q47/1 73-939
692067

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty clay, light grey, white, minor orange, coarsely textured, medium compacted, scattered carbonaceous blebs.
5-10	Silty clay, light brown, yellow and orange, coarsely textured, medium compacted, scattered carbonaceous specks set in white, lime green and brown clay matrix.
10-15	Silt, light, medium and dark brown, orange and white, coarsely textured, medium compacted, scattered well-rounded reddish dark brown clay pebbles.
15-20	Silt, light grey, coarse textured, loosely compacted, scattered clean quartz fine grained with orange clay inclusions.
20-25	Silty lithic sand, medium to coarse grained, sub-angular to angular, poorly sorted lithic fragments of clay and silt and minor quartz, very dirty, common silty and clayey interstitial material, medium compacted.
25-30	Sandy silt, light grey, coarsely textured, medium to loosely compacted, scattered inclusions of clay and quartz grains.
30-35	Silt, light grey, coarsely textured, medium compacted, scattered fine to medium grains of quartz and clay fragments, scattered carbonaceous specks.
35-40	Sandy silt, as 30-35 above.
40-45	Silty lithic sand, medium to coarse grained, sub-angular to sub-rounded, poorly sorted lithic fragments of silt and white and yellow clay, minor clear quartz set in silty interstitial material
45-50	Silty lithic sand, fine textured, as above.
50-55	Silty clay, light brown, yellow, finely textured, moderately compacted, scattered fine-grained quartz.
55-60	Lithic silt, light grey, minor orange, medium to coarse textured, moderately compacted.
60-65	Silty clay, light grey, medium textured, loose to medium compacted, rare finely divided mica, brown clay inclusions.
65-70	Clay, light grey, coarsely textured, moderately compacted.
70-75	Clay, as 65-70 above, scattered carbonaceous plant fragments, rare finely divided mica.
75-80	Silty clay, medium brown, coarsely textured, moderately compacted, rare carbonaceous fragments, scattered very finely divided mica.
80-85	Silty clay, light grey, coarsely textured, moderately compacted, scattered silt size quartz, scattered very finely divided mica.
85-90	Silty clay, as 80-85 above, scattered fine grained quartz.

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Silt, light grey, coarsely textured, moderately compacted, common grey clay, rare carbonaceous specks, occasional fine grained quartz.
95-100	Silt, light to medium grey, coarsely textured, moderately compacted, scattered to rare carbonaceous fragments, scattered fine grained quarts, minor gypsum?
100-105	Silt, as 95-100 above.
105-110	Silt, as 95-100 above.
110-120	Pebbly sand, clear, smokey white, medium to very coarsely grained, sub-angular, poorly sorted quartz, clean, scattered light brown silty interstitial material, scattered pebbles of quartz, quartzite, white clay.

All samples : S/35/35/0

Q47/1 73-939

014

BORE 5E

692069

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, medium grey, coarsely textured, moderately to loosely compacted, fragments of orange, light lime green, brown and grey clay, set in white, grey brown, yellow silt, scattered minute carbonaceous blebs.
5-10	Silt, mid brown, coarse textured, moderately compacted, scattered inclusions of orange clay, scattered cabonaceous specks, rare to scattered mica, scattered pebbles of clay and mudstone.
10-15	Silt, as 5-10 above.
15-20	Silt, as 5-10 above.
20-25	Silt, mid brown, light orange, light yellow, white, coarse textured, moderately compacted, rare mica, scattered dark brown soft mineral inclusions.
25-30	Silt, as 20-25 above, plus some fragments of brown, white and green laths, interlocked (like a weathered volcanic rock).
30-35	Lithic sand, dark grey, medium grained, sub-angular, poorly sorted, dark grey igneous rock? grains, minor quartz, orange, yellow and white water-worn clay grains. Slight yellow orange staining of quartz 1-2% loosely compacted.
35-40	Dolerite? broken pieces of igneous rock, some scattered quartz and clay fragments (caving?) may be a large boulder.
40-45	Dolerite, as 35-40 above.
45-50	Lithic sand, dark grey, brown, sub-angular, poorly sorted, medium to coarse grained, lithic clay and silt grains, common lignite pieces - 5%.
50-55	Lithic sand, as 45-50 above but rare lignite
55-60	Lithic sand, as 45-50 above, yellow, orange and brown staining of 5-10% of lithic fragments
60-67	Lithic sandstone, grey, brown, yellow, clear, medium grained, sub-angular, medium sorted quartz and lithic grains of silt and angular brown clay inclusions, loosely compacted, rare white columns of selenite.

All samples : S/34/34/0

015

Q47|1 73-437

BORE No. 6F

692070

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty clay, medium brown, coarsely textured, moderately compacted, scattered orange clay inclusions, scattered clear and yellow quartz grains.
5-10	Silty sand, clear, smokey, yellow, fine to medium grained, sub-angular, poorly sorted quartz, very dirty, common light yellow and brown silty and clayey interstitial material, rare mica, minute carbonaceous fragments, loosely compacted.
10-15	Silty clay, light yellow and brown, coarse textured, moderately compacted, rare carbonaceous specks, rare finely divided mica.
15-20	Silt, very light brown, coarse textured, loosely compacted, common clear, finely grained quartz set in white and yellow silt matrix.
20-25	Clay, light brown and yellow, coarsely textured, moderately compacted, rare to scattered finely divided mica, rare quartz grain inclusions.
25-30	Silt, light yellow and brown, coarse textured, loosely to moderately compacted.
30-35	Clay, white, minor orange, finely textured, moderately to well compacted, rare finely divided mica.
35-40	Clay, as 30-35 above, but orange to brown.
40-45	Clay, white minor yellow, coarse textured, moderately compacted, rare to scattered finely divided mica.
45-50	Clay, as 40-45 above.
50-55	Silt, light brown, yellow, coarsely textured, loosely compacted, scattered clear fine to medium quartz grains, rare white clay fragments.
55-60	Silty clay, white to light grey, minor yellow, coarsely textured, moderately compacted.
60-65	Silty clay, mid grey, coarsely textured, moderately compacted, minor orange clay.
65-70	Silt, light grey, coarsely textured, moderately compacted, scattered clear quartz - fine grains.
70-75	Clay, dark brown, medium textured , well compacted, scattered minute white clay inclusions
75-80	Silt, medium grey, coarsely textured, loosely to moderately compacted, scattered clear quartz, finely grained and with white clay inclusions.
80-85	Silt, as 75-80 above.
85-90	Silt, as 75-80 above. Occasional large pebbles.
90-95	Silt, as 75-80 above but quartz grains becoming more common.

DEPTH	STRATIGRAPHIC DESCRIPTION
95-105	Clay, medium grey, medium textured, well compacted, scattered orange clay pebbles, scattered carbonaceous plant fragments
105-110	Clay, as 95-105 above.
110-115	Clay, as 95-105 above plus rare to scattered finely divided mica, and white clay inclusions.
115-120	Clay, as 95-105 above, except coarsely textured.
120-125	Clay, as 95-105 above.
125-130	Clay, as 95-105 above, except dark grey.
130-135	Clay, as 95-105 above, becoming more silty with scattered lithic fragments.
130-135	Clay, medium greyish brown, coarsely textured, well compacted, scattered orange silt blebs, carbonaceous fragments, rare mica.
135-140	Clay, as 130-135 above.
140-145	Clay, light to medium grey, occasional orange, medium textured, well compacted, scattered white minute soft clay inclusions.
145-150	Clay, medium brown, as 95-105 above.
150-155	Clay, light to medium grey, fine to medium textured, well compacted, scattered white and rust coloured clay inclusions, occasional loose coarsely grained quartz, rare minute carbonate specks.
155-160	Clay, medium dark brownish grey, fine textured, well compacted, rare minute carbonaceous specks.
160-165	Clay, as 155-160 above.

All samples : S/35/35/0

Q47/1 73-939

017

BORE No.7 Rotary)

692072

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light brown, yellow, orange and grey, medium to coarsely textured, moderately compacted, scattered carbonaceous fragments.
5-10	Clay, white and orange, finely textured, moderately compacted, scattered orangish brown clay sub-rounded pebbles, scattered dark brown clay lenses, rare to scattered carbonaceous material.
10-15	Clay, as 5-10 above, plus inclusions of very hard, very well compacted, coarsely textured, orange and dark brown clay (ferruginous?)
15-20	Clay, orange, brown, light grey, white, medium textured, very well compacted, inclusions of hard ferruginous? clay as in 10-15 above.
20-25	Clay, as 5-10 above.
25-30	Clay, light brown, yellow, orange, light grey and white stringers, scattered carbonaceous stringers and inclusions, finely textured, moderately compacted.
30-35	Clay, light brown, yellow, reddish brown, very light grey, white, minor orange, rare minute carbonaceous inclusions and stringers, finely textured, moderately compacted.
35-40	Clay, predominately light yellowish brown, minor white and medium grey stringers, finely textured, moderately compacted.
40-45	Clay, light grey, white, dark brown and yellow, silty in places, coarsely textured, moderately compacted.
45-50	Silty clay, medium grey, yellowish brown, scattered dark brown lenses and clay pebbles.
50-55	Silt, light to medium grey, scattered dark brown clay grains, fine to medium textured, moderately compacted.
55-60	Silt, as 50-55 above, rare to scattered carbonaceous wood fragments.
60-90	Missing.
90-95	Sand, clear, scattered light brown, smokey grey, coarse grained, sub-angular, medium to poorly sorted quartz, dirty, scattered white and light brown silty interstitial material, scattered white, medium textured, moderately compacted, clay fragments, friable, loosely compacted.
105?	Clay light to medium greenish grey, minor orange, scattered carbonaceous wood fragments, scattered dark brown clay grains, occasional orange and white clay grains, coarsely textured, moderately compacted.
110?	Silt, medium brown, rare carbonaceous wood fragments, fine to medium textured, loosely to moderately compacted.
120?	Silt, medium to dark brown, rare carbonaceous specks, coarsely textured, loosely to moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
130-135	Silt, medium light brown and grey, rare carbonaceous grains, rare to scattered orange clay inclusions, coarsely textured, loosely compacted.
135-140	Silt, as 130-135 above, but common grey clay matrix, also stringers of medium grey clay.
140-145	Silt, light grey, scattered carbonaceous specks, scattered finely grained quartz, coarsely textured, loose to moderately compacted.
145-150	Silty clay, medium grey, scattered carbonaceous fragments and brown clay silt size grains, rare yellow clay, coarsely textured, moderately compacted.
150-155	Silt, as 140 - 145 above.
155-160	Silt, medium to dark brown, minor orange, coarsely textured, moderately to loosely compacted.
160-165	Silt, as 155-160 above.
165-170	Silt, as 155 - 160 above, rare carbonaceous wood fragments.
170-175	Sandy silt, clear, light brown and yellow, silt to very finely grained, sub-angular to sub-rounded, poorly sorted quartz, scattered orange and white clay grains, set in a white and brown silty and clayey matrix, very coarsely textured, loosely compacted.
175-180	Silt, light brown and grey and white, coarsely textured, loosely compacted.
180-185	Silt, as 175-180 above, except medium brown and scattered carbonaceous wood fragments.
185-190	Silty clay, mid brown, coarsely textured, moderately compacted, scattered carbonaceous fragments.
195-200	Silty clay, as 185-190 above.
200-205	Clay, medium brown, scattered orange, medium to coarsely textured, loosely to moderately compacted, common brown and black carbonaceous wood fragments, scattered red and brown with yellowish orange coated sideritic clay inclusions.
205-210	Carbonaceous clay, as 200-205 above, scattered silt.
210-215	Carbonaceous clay, as 200-205 above, scattered silt.
215-220	Carbonaceous clay, as 200-205 above, scattered silt.
220-225	Clay, medium grey and brown, coarsely textured, loosely compacted, common carbonaceous material and wood fragments, scattered coarse grained, sub-rounded, orange silt particles, some of which are coated with yellow silt.limonite coated siderite.
225-230	Clay, light brown, yellow, orange, dark brown, grey and white, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
230-235	Silty clay, medium grey, medium brown, white, rare yellow stringers, scattered carbonaceous wood fragments, coarsely textured, loosely to moderately compacted.
235-240	Silty clay, as 230-235 above.
240-245	Silty clay, as 230-235 above, medium textured.
245-250	Silty clay, as 230-235 above, medium textured.
250-255	Silty clay, medium to dark brown, white, yellow and orange stringers, common carbonaceous wood fragments and material, coarse textured, loosely to moderately compacted.
255-260	Silty clay, as 250-255 above.
260-265	Silty clay, as 250-255 above.
265-270	Silty clay, as 250-255 above, only scattered carbonaceous wood fragments.
270-275	Silty clay, as 265-270 above.
275-280	Silty clay, as 250-255 above.
280-285	Silty clay, light grey, brown, medium to dark brown, yellow, white and orange stringers, scattered carbonaceous wood fragments, coarsely textured, loosely to moderately compacted.
285-290	Clay, medium to dark brown, medium grey, minor white, stringers, scattered inclusions of yellow and orange patches, scattered brown to black carbonaceous fragments, coarsely textured, moderately compacted.
290-295	Clay, as 285-290 above.
295-300	Clay, as 285-290 above with orange stringers more common.
300-305	Clay, as 285-290 above.
305-310	Clay, as 295-300 above.
310-315	Clay, as 285-290 above.
315-320	Clay, as 285-290 above.
320-325 /sideritic	Clay, medium brown, yellow and white stringers, scattered dark reddish brown/silt inclusions, occasional orange glassy mineral, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
325-330	Silty clay, as 280-285 above.
330-335	Clay, medium grey, brown, dark brown, yellow, white, minor orange stringers, scattered carbonaceous wood fragments, coarsely textured, moderately compacted, occasional orange glassy mineral.

020

BORE No.7 (Rotary)

692075

DEPTH	STRATIGRAPHIC DESCRIPTION
335-340	Silt, medium grey, occasional yellow, scattered carbonaceous wood fragments, coarsely textured, medium to loosely compacted, scattered finely grained quartz.
340-345	Silt, as 335-340 above.
345-350	Clay, medium brown, minor yellow stringers, scattered carbonaceous wood fragments, scattered orangish brown sideritic clay inclusions.
350-355	Clay, as 340-345 above, scattered orange glassy mineral.
355-360	Silty clay, medium greyish brown, minor white and orange stringers, scattered yellow, orange and reddish brown sideritic angular clay inclusions and rounded clay pebbles, rare carbonaceous wood fragments, occasional orange glassy mineral, scattered fine to medium quartz grain, coarsely textured, moderately compacted.
360-365	Silty clay, as 350-355 above.
365-370 /grain	Clay, medium brown, white and yellow stringers, scattered white, yellow, orange, clayey, angular/inclusions, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
370-375	Clay, light grey, white stringers, scattered yellow, orange and white angular clay inclusions, rare coaly fragments, coarsely textured, moderately compacted.
375-380	Clay, as 365-370 above.
380-385	Clay, as 365-370 above, becoming silty.
385-390	Silty clay, as 350-355 above.
390-395	Clay, mottled, medium brown, white, yellow and orange scattered dark red and brown clay inclusions, scattered carbonaceous wood fragments, fine to medium textured, moderately compacted.
395-400	Silty clay, as 350-355 above.
400-405	Clay, medium dark brown, white, yellow and orange stringers, scattered red and brown inclusions, scattered carbonaceous wood fragments, fine to medium textured, occasional fine grains of quartz, moderately compacted.
405-410	Clay, as 395-400 above.
410-415	Clay, medium brown, grey, yellow, orange and white stringers, scattered orangish brown and reddish brown angular pieces,(sideritic) scattered carbonaceous wood fragments.
415-420	Silty clay, medium brown, white, and yellow stringers, scattered yellow and orange clay inclusions, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
420-425	Clayey silt, medium brown, scattered inclusions of angular yellow, orange, brown and white clay fragments, scattered red and brown, fine to medium, sub-rounded clay grains, scattered carbonaceous wood fragments, scattered fine grained quartz, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
425-430	Clayey silt, as 420-425 above.
430-435 /sideritic	Clay, medium brown, white, yellow and orange stringers, scattered carbonaceous wood fragments, scattered reddish brown/clay grains, fine to medium textured, moderately compacted.
435-440 /sideritic	Clay, light to medium grey, white and yellow stringers, scattered carbonaceous wood fragments, scattered reddish brown/clay grains, fine to medium textured, well compacted.
440-445	Clay, as 435-440 above.
445-450	Clay, as 435-440 above.
450-455	Clay, as 435-440 above.
455-460	Silty clay, as 435-440 above.
460-465	Clay, as 435-440 above except orange, yellow, red and brown clay grains are more common.
465-470	Clayey silt, medium brown, white, yellow and orange stringers, scattered multicoloured clay particles, scattered fine to medium grains of quartz, medium textured, moderately compacted.

All samples : S/35/35/0

Q47/1 73-939.

022

BORE No.7

692077

DEPTH	STRATIGRAPHIC DESCRIPTION
465-470	Silty clay, medium brown, coarsely textured, moderately compacted, scattered fine grained quartz, lithic white clay fragments, occasional red and brown clay pebbles, scattered carbonaceous plant fragments and specks.
470-475	Silty clay, as above except dark brown and orange coarse grained clay pebbles more abundant, scattered yellow clay inclusions, carbonaceous fragments more abundant.- 5 to 10%.
475-480	Silty clay, as 470-475 above.
480-485	Silty clay, as 470-475 above except medium to dark brown and scattered to common lignite and coal fragments.-10-15%.
485-490	Silty clay, as 480-485 above, scattered patches of white, yellow and orange clay.
490-495	Silty clay, as 480-485 above, carbonaceous fragments - about 5-10%.
495-500	Silty mudstone, medium brown, coarse textured, moderately compacted, scattered carbonaceous fragments up to 5%, scattered very fine to fine grained quartz, brown and orange clay fragments, rare to scattered white and yellow clay patches.
500-505	Silty mudstone, as 500 - 510 above.
505-510	Silty mudstone, mid dark grey, scattered white, yellow and orange patches, medium textured, moderately compacted, scattered to common carbonaceous fragments (15%).
510-515	Silty mudstone, as 520 - 525 above, except common carbonaceous fragments, 20%, scattered orange to brown clay grains,(sideritic) one glassy reddish tango coloured brittle mineral?
515-520	Silty mudstone, as above 525-530, carbonaceous material - 10 to 15%.
520-525	Mudstone, dark grey, medium textured, moderately compacted, common carbonaceous fragments and inclusions up to 25%, rare to scattered yellowish brange clay inclusions. (sideritic)
525-530	Mudstone, as 535 & 540 above.

Q47/1 73-939

BORE 7G

023

692078

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, orange to brown, finely textured, well compacted, waxy, rare carbonaceous minute specks.
5-10	Silty clay, light brown, yellow and orange, clay and silt, coarsely textured, moderately compacted, rare very fine grains of orange quartz.
10-15	Clayey silt, as 5-10 above except scattered clear and orange fine grained quartz, scattered white silt inclusions, rare carbonaceous fragments.
15-20	Clay, mottled, light brown, orange, red, yellow and white clay, medium textured, well compacted, rare carbonaceous fragments.
20-25	Silt, light brown, white, yellow and orange, finely textured, moderately compacted, occasional clear and orange fine grained quartz.
25-30	Sandy silt, light grey, clear, white, sub-angular, very fine grained, medium sorted quartz, and scattered white clay grains, very dirty, common white and minor orange clayey and silty interstitial material
30-35	Sandy silt, as 25-30 above, slightly cleaner, less clayey material.
35-40	Sand, clear white and brown very fine to fine grained, sub-angular, poorly sorted quartz, fairly dirty, scattered white silty interstitial material, occasional pink quartz grains, moderately to loosely compacted, scattered white clay grains.
40-45	Sand, light yellow and brown, clear, white and brown, fine grained, sub-angular to sub-rounded, medium sorted quartz, dirty, scattered light brown silty interstitial material, good porosity and permiability, friable, moderately to loosely compacted.
45-50	Sandy silt, medium yellow-brown, clear, white, brown, silt size to very fine grained, sub-rounded, medium sorted quartz set in yellow and brown silty matrix.
50-55	Silty clay, medium orangish brown, medium textured, moderately compacted, scattered sub-rounded to rounded finely grained quartz.
55-60	Sandy clay, light grey, very coarsely textured, moderately compacted, common fine to medium grained, sub-angular to sub-rounded, poorly sorted quartz grains set in white clay and silty matrix, rare minute carbonaceous specks.
60-65	Sand, clear, brown, fine to medium grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common brown silty interstitial material.
65-70	Sand, light brown, clear, very fine to very coarse grained, sub-angular to rounded, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered pebbles up to 1/4" of white vein quartz.

DEPTH	STRATIGRAPHIC DESCRIPTION
70-75	Sand, light brown, clear, very fine to medium grained, sub-angular, poorly sorted quartz, very dirty, common light brown silty interstitial material, rare carbonaceous specks.
75-80	Silty sand, light grey, clear, white, very fine to coarse grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common white and light brown silty interstitial material, scattered pebbles up to 1/8" diameter of quartz, loosely compacted.
80-85	Silty sand, as 75-80 above, except less pebbles.
85-90	Sand, light brown, clear, fine to coarse grained, sub-angular to sub-rounded, poorly sorted quartz, fairly clean, scattered white and light brown silty interstitial material, rare minute carbonaceous specks, scattered pebbles, up to 1/8" of sub-rounded quartz.
90-95	Silt, light grey, coarsely textured, moderately to loosely compacted, scattered pebbles of clear and glassy and white quartz, up to 1/4" diameter. One large water-worn pebble of light grey indurated claystone containing inclusions of dark brown material
95-100	Silt, white to light grey, medium textured, loosely to moderately compacted, common very finely divided carbonaceous specks.
100-105	Sandy silt, light brown, coarsely textured, loosely compacted, scattered to rare finely divided carbonaceous specks, scattered fine to coarse quartz grains.
105-110	Sandy silt, light grey, clear, finely grained quartz set in white and light grey silty matrix, rare carbonaceous specks, scattered coarse grains of white and clear quartz.
110-115	Sandy silt, as 105-110 above.
115-120	Sand, clear, smokey, grey and brown, and white, occasional orange, very coarsely grained, sub-angular to sub-rounded, poorly sorted quartz, fairly clean, scattered white and light brown silty and very finely grained sandy interstitial material, rare minute carbonaceous nodules and fragments, loosely compacted, occasional frosted quartz pebbles, rare quartz grains with yellowish orange staining.
120-125	Sand, as 115-120 above.
125-130	Pebbly sand, clear, brown, smokey, orange and white, fine to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common brown silty and clayey interstitial material rare to scattered carbonaceous fragments, occasional brown and orange clay pebbles, loosely compacted.
130-135	Pebbly sand, clear, white, grey and brown, smokey, very coarsely grained to pebbly, sub-angular to sub-rounded, medium sorted quartz, clean, rare to scattered white, light brown and, sometimes, yellow clayey and silty interstitial material, occasional grains of black and white igneous rock, occasional yellow staining.

BORE No. 7G

DEPTH	STRATIGRAPHIC DESCRIPTION
135-140	Sand, clear, white, smokey, grey and brown, rare purple, fine to very coarsely grained, sub-angular to sub-rounded (some angular quartz broken up by drilling) quartz, rare quartzite, grey indurated silt, rare carbonaceous fragments, clean, rare to scattered fragments of dark igneous rock, occasional orange and yellow stained aggregates of sand, stained grains are less than 3%, loosely compacted, rare to scattered silty interstitial material.
140-145	Sand, as for 135-140 above, scattered pebbles of quartz up to 1/4" diameter.
145-150	Sand, as 135-140 above.
155-160	Silty clay, medium grey and brown, coarsely textured, loosely to moderately compacted, common finely grained, clear, brown and grey quartz.

All samples : S/35/35/0

Q47/1 73-939
692081

BORE No.8

026

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Pebbly clay, mottled medium brown, yellow, orange and light grey, scattered to common pebbles up to 1" diameter of orangish brown clay, rare carbonaceous blebs, finely textured, moderately compacted.
5-10	Clay, white, with orange and yellow and brown mottling, rare carbonaceous fragments, fine to medium textured, moderately compacted.
10-15	Clay, as 5-10 above.
15-20	Clay, speckled white, red, brown, yellow and orange, coarsely textured, moderately compacted.
20-25	Clay, white, red, brown, yellow, and orange stringers and specks, scattered minute carbonaceous fragments, coarsely textured, moderately compacted.
25-30	Clay, as 15-20 above.
30-35	Silty clay, reddish brown, orange, yellow and white, scattered carbonaceous fragments, coarsely textured, loosely to moderately compacted.
35-40	Silty clay, as 30-35 above.
40-45	Clayey silt, red, brown, orange and yellow, rare to scattered carbonaceous fragments, scattered very finely grained clear and orange quartz grains.
45-50	Clayey silt, as above except yellow abundant.
50-55	Clayey silt, as 40-45 above.
55-60	Clayey silt, as 40-45 above.
60-65	Clayey silt, as 40-45 above, except more brown.
65-70	Clayey silt, as 40-45 above, scattered white and green silty material.
70-75	Clayey silt and clay, light to medium brown, yellow, minor reddish brown, scattered greenish grey clay, rare to scattered carbonaceous fragments.
75-80	Silt, medium brown quartz and multicoloured clay fragments, rare to scattered carbonaceous fragments, coarsely textured, loosely compacted.
80-85	Silty clay, medium brown, orange, white, mottled, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
85-90	Silty clay, as 80-85 above.
90-95	Clayey silt, medium brown, scattered white fragments, scattered fine grains of quartz, rare to scattered carbonaceous fragments, coarsely textured, loosely to moderately compacted.
95-100	Clayey silt, as 90-95 above, scattered carbonaceous fragments.

DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Clayey silt, as 95-100 above.
105-110	Clayey silt, as 95-100 above, becoming coarse grained.
110-115	Silty clay, as 90-95 above, scattered carbonaceous wood fragments, fine grains of quartz, coarsely textured, moderately compacted, black and white glassy igneous fragments.
115-120	Silty clay, as 110-115 above.
120-125	Silty clay, medium brown, orange, yellow, white speckles, common black and white glassy fragments (dolerite?)
125-130	Silty clay, and igneous material, as above.
130-135	Clay, mottled medium brown, orange and white, scattered inclusions of dark brown clay fragments, scattered black and white igneous fragments.

All samples : S/35/35/0

028

BORE No.8H

692083

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Pebbly sand, clear, yellow, coarse to very coarse grained, sub-angular to rounded, poorly sorted quartz, very dirty, common orangish brown clayey and silty interstitial material, scattered white clear quartz pebbles up to 1/4" diameter, most of clear quartz is coloured yellow due to yellow clay adhering to the grains, friable, loosely compacted.
5-10	Sand, clear, light smokey brown, medium to coarsely grained, sub-angular to sub-rounded, poorly sorted quartz, dirty, common light brown silty interstitial material, scattered dark mineral, friable, loosely compacted.
10-15	Sand, clear, grey smokey, medium to coarsely grained, sub-angular, medium to poorly sorted quartz, dirty, scattered white and light grey silty interstitial material, rare white and orange clay inclusions, minor black mineral, loosely compacted.
15-20	Silty sand, light to medium grey, clear, very finely grained to finely grained, sub-angular, poorly sorted quartz, very dirty, common light grey silty interstitial material to rare scattered mica, rare carbonaceous blebs, friable, loosely compacted.
20-25	Silty sand, as 15-20 above except medium grey.
25-30	Silty sand, as 20-25 above.
30-35	Silty sand, as 20-25 above, moderately compacted.
35-40	Silty sand, as 20-25 above, plus stringers of yellow and orange silty sand. Clay, medium grey, coarsely textured, scattered coal stringers.
40-45	Clayey silt, orange, white and light grey, scattered fine to medium quartz grains, coarsely textured, loosely to moderately compacted.
45-50	Clayey silt, as 40-45 above.
50-55	Clay, light grey, scattered orange clay inclusions, scattered fine grains of quartz, coarsely textured, moderately compacted.
55-60	Clayey sand, brown, orange, red and clear medium to very coarsely grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common medium orange to brown clay matrix, scattered brown clay inclusions.
60-65	Sand, light brown, clear, medium to very coarsely grained, sub-angular to angular, poorly sorted quartz, very dirty, common brown silty interstitial material, rare to scattered white clay fragments, loosely compacted.
65-70	Sand, light brown and grey smokey and clear, medium grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common silty interstitial material, loosely to moderately compacted. Clay, white and light grey.

DEPTH	STRATIGRAPHIC DESCRIPTION
70-75	Silty clay, light grey, minor orange, scattered inclusions of medium brown and orange clay, scattered coarse grains of quartz.
75-80	Sand, clear grey fine to medium grained, sub-angular to sub-rounded, medium to poorly sorted quartz, very dirty, common grey silty and clayey interstitial material, occasional light pink felspar?
80-85	Sand, clear, grey, medium to coarsely grained, sub-angular, poorly sorted quartz, very dirty, common light grey, rare orange, silty interstitial material, rare white felspar? rare black mineral, loosely compacted.
85-90	Sand, as 80-85 above, except interstitial material is very clayey.
90-95	Sand, as 75-80 above.
95-100	Clay, dark brown, coarsely textured to silty, moderately compacted.
100-105	Sand, clear, light grey and brown, very fine to finely grained, sub-angular, medium to poorly sorted quartz, very dirty, common light brown, grey and minor orange silty and clayey interstitial material, scattered white and orange clay grains, loosely compacted.
105-110	Sand, as 100-105 above.
110-115	Clay, and carbonaceous clay, dark brown, common carbonaceous wood fragments, coarsely textured, moderately compacted.
115-120	Clay, dark brown, coarsely textured, moderately compacted.
120-125	Silty clay, light to medium grey, minor reddish brown, scattered white clay, angular, fragments, scattered medium to coarse grains of quartz (clear and brown) some of which have orange clay adhering to them.
125-130	Silty clay, dark brown, very coarsely textured, loosely to moderately compacted, common large fragments of carbonaceous material and wood pieces.
130-135	Silty clay, as 125-130 above, only scattered carbonaceous wood fragments.
135-140	Silty clay, light to medium grey, coarsely textured, loosely compacted, rare medium grains of quartz
140-145	Silty sand, light grey, clear, finely grained, sub-angular, medium sorted quartz, very dirty, abundant grey silty and clayey interstitial material, scattered cream felspar?
145-150	Sandy clay, light to medium grey, common clear medium to coarsely grained, sub-angular, poorly sorted quartz set in a light grey silty and clayey matrix, loosely compacted.
150-155	Silty sand, medium brown, clear, dark brown, fine to coarsely grained, sub-angular, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered white to cream mineral (felspar) loosely compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
155-160	Silty sand, as 150-155 above.
160-165	Silty sand, as 150-155 above, but abundant clay and slightly finely grained.
165-170	Sand, clear, light grey and white, medium to coarsely grained, sub-angular, medium sorted, quartz, very dirty, common white and light grey silty interstitial material, loosely compacted.
170-175	Sand, as 165-170 above, plus clay, light to medium grey, coarsely textured, moderately compacted.

All samples : S/35/35/0

031

Q4711 73-934

BORE No.10 Epping

692086

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy clay, medium yellow and brown, coarsely textured, moderately compacted, common silt size to medium grains of red, brown yellow and clear quartz (wet in the bag).
5-10	Sandy clay, as 0-5 above.
10-15	Sandy clay, as 0-5 above, large pebblesof rounded quartz up to 1/8"
15-20	Sandy clay, as above except less gritty and white and orange.
20-25	Pebbly sand, clear, grey, brown, coarse to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered lenses and inclusions of yellow and orange silty clay in the matrix, rare to minor grains of black igneous rock (dolerite) loosely compacted.
25-30	Pebble sand, as 20-25 above, large pebbles 1/2" diameter of white quartz.
30-35	Pebble sand, clear, smokey brown and grey white and cream coarse to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered pink felspar, granitic grains, dolerite grains. 10-20% quartz grains have orange clay material adhering to them, loosely compacted.
35-40	Sandy silt, medium grey, coarsely textured, loosely compacted, clear, brown, yellow and grey fine grained quartz set in clay and silt matrix, scattered finely divided carbonaceous fragments.
40-45	Sandy silt, as 35-40 above.
45-50	Pebbly sand, clear, brown, smokey grey and purple, coarse to very coarse grained, sub-angular, poorly sorted quartz, dirty, scattered brown silty interstitial material, scattered pink felspar, dolerite grains, white clayey silt, scattered pebbles of quartzitic sandstone quartz, loosely compacted.
50-55	Sandy silt, as 35-40 above.
55-60	Sandy silt, as 35-40 above.
60-65	Sandy silt, as 35-40 above.
65-70	Sandy silt, as 35-40 above, except dark grey.
70-75	Sandy silt, as 35-40 but scattered to common orange silty material.
75-80	Sandy silt, as 70-75 above.
80-85	Sandy silt, as 70-75 above, scattered carbonaceous fragments.
85-90	Sandy silt, as 70-75 above, scattered large inclusions and lenses of carbonaceous plant material, scattered mica, loosely compacted.
90-95	Sandy silt, as 80-85 above.

032

BORE No.10 Epping

692087

DEPTH	STRATIGRAPHIC DESCRIPTION
95-100	Sandy silt, as 80-85 above.
100-105	Silt, brown, yellow and orange, coarsely textured, loosely compacted, scattered carbonaceous blebs.
105-110	Silt, as 100 - 105 above.
110-115	Silt, as 100 - 105 above.
115-120	Silt, as 100-105 above, high brown clay content.
120-125	Silt, as 115-120 above plus common to scattered carbonaceous fragments.
125-130	Silt, as 100-105 above.
130-135	Clayey silt, dark brown, coarsely textured, loosely compacted, common carbonaceous matter?
135-140	Clayey silt, as 130-135 above.
140-145	Clayey silt, as 130-135 above.
145-150	Silty clay, dark chocolate brown, coarsely textured, loosely consolidated, scattered carbonaceous fragments.
150-155	Silty clay, as 145-150 above, rare orange clay specks.
155-160	Silty clay, as 145-150 above.
160-165	Silty clay, 150-155 above.
165-170	Silty clay, as 145-150 above.
170-175	Silty clay, as 145-150 above, common carbonaceous material.
175-180	Clayey silt, medium brown, coarse textured, loosely compacted, scattered carbonaceous material.

All samples : S/35/35/0

Q4711 73-439

033

BORE No. ~~10~~ (Rotary)

692088

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty clay, mottled light brown, yellow, orange and white, coarsely textured, moderately compacted.
5-10	Silty clay, as 0-5 above.
10-15	Clay, as 0-5 above.
15-20	Clay, as 0-5 above.
20-25	Silty clay, as 0-5 above.
25-30	Silty clay, as 0-5 above, rare finely divided mica.
30-35	Silty clay, as 0-5 above, rare finely divided mica, plus rare very finely divided carbonaceous specks.
35-40	Silt, medium yellow and brown, coarsely textured, loosely compacted, rare finely divided mica and carbonaceous specks.
40-45	Clay, white, dark brown, and orange, finely textured, well compacted. Silt, white, yellow and orange, medium textured, well compacted, scattered finely divided carbonaceous specks.
45-50	Silt, medium to dark brown and yellow, coarsely textured, loosely compacted, rare to scattered mica.
50-55	Clay, dark brown, white and orange, coarsely textured, moderately compacted, common inclusions of white silt lenses, scattered black carbonaceous material.
55-60	Clay, chocolate, dark brown and cream, coarsely textured, moderately compacted, scattered inclusions of orange silt, common carbonaceous specks and debris in brown clay.
60-65	Clay, mottled grey, brown and white, minor yellow, finely textured, moderately compacted, scattered carbonaceous inclusions, some brown and yellow silty material
65-70	Clay, as 60-65 above.
70-75	Clay, as 60-65 above.
75-80	Clay, as 60-65 above, common carbonaceous material.
80-85	Clay, as for 75-80 above.
85-90	Carbonaceous mudstone.
90-95	Carbonaceous mudstone.
95-100	Carbonaceous mudstone.
100-105	Carbonaceous mudstone.
105-110	Mudstone, medium to dark grey, medium textured, moderately compacted, scattered white and minor yellow clay inclusions, scattered carbonaceous plant remains and fragments
110-115	Silty clay, medium grey, minor white and orange, coarsely textured, rare to scattered carbonaceous fragments, scattered brown clay inclusions.

DEPTH	STRATIGRAPHIC DESCRIPTION
115-120	Clay, generally medium grey, scattered white and minor orange and brown lenses, coarsely textured, moderately compacted, scattered carbonaceous fragments, and scattered brown clay pebbles, scattered brown glassy mineral which has splintery fracture.
120-125	Clay, light to medium grey, white with scattered orange specks, medium textured, well compacted, scattered to rare carbonaceous fragments, rare orange to brown glassy mineral.
125-130	Silty clay, grey, brown, yellow, orange and white coarsely textured, well compacted, rare minute carbonaceous fragments.
130-135	Silt, light grey, coarsely textured, well compacted, scattered dark brown clay stringers, rare carbonaceous fragments.
135-140	Clay, medium grey, coarsely textured, well compacted, common carbonaceous material and coal fragments, scattered yellow or orange silt.
140-145	Clay, medium brown, medium textured, well compacted, scattered white clay angular inclusions, scattered minute carbonaceous fragments.
145-150	Clay, light and medium brown, grey, white, yellow and orange stringers, scattered brown carbonaceous material, occasional fine grains of quartz.
150-155	Clay, as 145-150 above.
155-160 /clay	Clay, as 145-150 above, occasional yellow and orange silt stringers and dark brown/inclusions. of sideritic clay.
160-165	Clay, medium brown and white stringers, medium to coarsely textured, well compacted, scattered quartz and other lithic grains, scattered brown coal and carbonaceous material.
165-170	Clay, medium grey and brown, rare orange, coarsely textured, well compacted, common carbonaceous and brown coal fragments.
170-175	Clay, as 165-170 above.
175-180	Silty clay, medium grey, scattered angular white clay inclusions, rare quartz, rare yellow and orange specks of clay, scattered carbonaceous fragments.
180-185	Silty clay, as 175-180 above, except yellow and orange clay stringers or inclusions? more abundant.
185-190	Silty clay, medium to light grey, coarsely textured, well compacted, scattered stringers of yellow silty clay, rare dolerite grains.
190-195	Clay, medium light grey, fine to medium textured, well compacted, rare to scattered inclusions of very finely grained brown clay and quartz.
195-200	Silty clay, light to medium brown, white, yellow and orange stringers, coarsely textured, well compacted, scattered carbonaceous fragments.

DEPTH	STRATIGRAPHIC DESCRIPTION
200-205	Silty clay, as 195-200 above.
205-210	Silty clay, as 195-200 above, plus occasional dark brown grains.
210-215	Silty clay, as 205-210 above.
215-220	Silty clay, yellow, orange, red, white, brown and grey stringers, scattered carbonaceous wood fragments, scattered brown coaly fragments.
220-225	Silty clay, light brown, white, grey, yellow and bright orange stringers, medium textured, moderately compacted, scattered coal fragments.
225-230	Silty clay, medium to dark brown, minor light brown and orange, medium textured, scattered minute white clay grains rare finely grained quartz, rare carbonaceous specks.
230-235	Silty clay, medium grey, coarsely textured, well compacted, scattered dark brown clay particles (does not bubble in
235-240 /sideritic	Silty clay, medium brown, coarsely textured, moderately compacted, scattered yellow to orange silty/clay inclusions, scattered carbonaceous wood fragments.
240-245	Silty clay, medium grey and brown, scattered white, yellow and orange stringers, scattered carbonaceous wood and coal fragments, rare very fine grained quartz, dark brown clay grains. of siderite.
245-250	Silty clay, as 240-245 above.
250-255	Silty clay, as 235-240 above.
255-260	Clay, dark brown, coarsely textured, moderately compacted, common dark brown to black carbonaceous material, rare bright orange shining soft mineral, scattered stringers of yellow to orange silt.
260-265	Silty clay, medium grey, medium textured, scattered brown silt inclusions, scattered carbonaceous fragments.
265-270	Clay, medium grey, coarsely textured, moderately compacted, common soft brown and black carbonaceous inclusions and wood fragments.
270-275	Clay, dark grey, light grey, minor yellow and orange inclusions, scattered to common carbonaceous material, coarse textured, moderately compacted.
275-280	Carbonaceous clay, black, scattered to common orange clay stringers, medium textured, moderately compacted.
280-285	Clay, medium dark brown and orange, medium textured, moderately compacted, scattered carbonaceous material
285-290	Clay, medium brown, white and orange stringers, medium to coarse textured, moderately compacted.
290-295	Clay, dark brown, black, minor orange, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
295-300	Silty clay, medium grey, scattered inclusions of dark brown clay, scattered carbonaceous material, coarsely textured, moderately compacted.
300-305	Silty clay, dark brown, minor orange, slightly carbonaceous in nature, coarsely textured, moderately compacted, rare medium grained quartz.
305-310	Clay, light to dark grey, medium textured, moderately compacted, scattered carbonaceous material.
310-315	Clay, medium grey and white, fine to medium textured, moderately compacted, scattered carbonaceous material.
315-320	Clay, medium brown, coarsely textured, moderately compacted, scattered inclusions of carbonaceous material.
320-325	Clay, dark brown, scattered lenses of light grey silty clay lenses, rare to scattered carbonaceous material.
325-330	Clay, as 320-325 with minor orange stringers.
330-335	Clay, dark brown, medium grey and white, medium textured, moderately compacted, scattered carbonaceous fragments, rare orange glassy soft mineral
335-340	Coal and brown clay.
340-345	Clay, as 320-325 above.
345-350	Clay, as 300-305 above.
350-355	Clay, medium brown, rare white, medium textured, moderately compacted, scattered minute carbonaceous fragments.
355-360	Clay, mid grey and white, medium textured, moderately compacted, scattered dark grey clay inclusions, scattered brown to black carbonaceous fragments.
360-365	Clay, medium brown, minor white, scattered dark brown and carbonaceous inclusions and fragments, medium textured, moderately compacted.
365-370	Clay, medium brown, grey, white, minor dark brown and orange, medium textured, moderately compacted.
370-375	Clay, light grey, medium grey and brown, orange and brown, coarsely textured, moderately compacted, scattered dark reddish brown carbonaceous material.
375-380	Clay, as 370-375 above.
380-385	Clay, as 370-375 above, common carbonaceous material, coal and wood fragments, red to orange clay.
385-390	Clay, medium-dark grey, brown, and white, fine to medium textured, moderately compacted, scattered fragments of carbonaceous material.
390-395	Clay, medium to dark grey, brown, light grey, yellow and orange stringers, coarsely textured, moderately compacted, scattered carbonaceous wood fragments.

DEPTH	STRATIGRAPHIC DESCRIPTION
395-400	Clay, dark brown to black, coarsely textured, carbonaceous common yellow and orange silty stringers.
400-405	Clay, as 395-400 above.
405-410	Coal, medium dark grey clay with carbonaceous wood fragments.
410-415	Clay, light grey and medium brown, scattered orange stringers, finely textured, moderately compacted.
415-420	Clay, as 410-415 above.
420-425	Coal, minor light grey and medium brown clay.
425-430	Clay, white, scattered dark greyish brown to black stringers, medium textured, moderately compacted. Brown clay stringers contain carbonaceous material.
430-435	Clay, white and medium greyish brown, finely textured, minor orangish brown, fine grains of /clay, moderately compacted.
derite	
435-440	Clay, medium brown and white, medium to coarsely textured, moderately compacted, minor reddish brown mineral. (siderite)
440-445	Clay, as 435-440 above.
445-450	Clay, as 435 - 440 above, plus minor minute inclusions of orange clay.
450-455	Silty clay, as 445-450 above, coarsely textured.
455-460	Silty clay, as 450-455 above.
460-465	Silty clay, medium brown, white dark brown and orange, medium to coarsely textured, moderately compacted.
465-470	Silty clay, as 450-455 above.
470-475	Silty clay, mottled medium greyish brown and white, rare orange, coarsely textured, moderately compacted.
475-480	Silty clay, as 460-465 above.
480-485	Silt, medium grey, scattered orangish brown soft mineral grains. of siderite.
485-490	Silty clay, light grey, medium brown, minor orange, coarsely textured, moderately compacted.

All samples : S/35/35/0

03

Q47/1 15-107

BORE No.11K (Epping)

692093

DEPTH	STRATIGRAPHIC DESCRIPTION
0-55	Missing (see Mines Department description)
55-60	Silty clay, medium brown, medium to loosely compacted when dry, common clear, white and sometimes brown, very finely grained, poorly sorted, sub-rounded to sub-angular quartz, scattered to rare sub-angular medium quartz pieces, rare sub-rounded, coarsely grained quartz grains, occasional carbonaceous blebs and wood fragments (1%) and rare white mica, rare soft orange mineral?
60-65	Silty clay, as above 55-60.
65-70	Silty clay, as above 55-60.
70-75	Silty clay, as above, occasional large sub-rounded quartz grains, rare rusty brown clay inclusions, rare to scattered brown and white mica.
75-80	Silty clay, as above, scattered very coarse grains of sub-rounded, clear, white and grey quartz, and rare pink sub-rounded very coarse grains of felspar (othoclase?)
80-85	Silty clay, as above, scattered clear sub-angular to sub-rounded, very coarse grains of quartz.
85-90	Silty clay, medium to dark brown, loosely compacted when dry, common silt size to very fine grained, sub-angular, poorly sorted, clear and brown quartz grains set in brown clay matrix, scattered minute carbonaceous fragments, scattered white and clear, very coarse grains of sub-angular to sub-rounded quartz, rare finely divided mica.
90-95	Silty clay, as above (85-90) rare rusty coloured silty clay patches, occasional pink felspar.
95-100	Silty clay, as 85-90 above.
100-105	Silty gravel, medium brown, common clear, white and grey poorly sorted, sub-rounded to rounded quartz pebbles up to 1/4" diameter, set in silty matrix consisting of common clear and brown, sub-angular to angular, poorly sorted quartz silt size grains, scattered minute carbonaceous fragments, scattered finely divided mica, occasional reddish brown granite? pebbles and green dolerite? pebbles.
105-110	Pebbly silty clay, medium brown, loosely compacted, silt size, clear, brown, white, orange, sub-angular to sub-rounded, medium to poorly sorted quartz, scattered carbonaceous minute fragments, rare to scattered finely divided mica, scattered pebbles up to 1/8" diameter of clear and white sub-rounded to rounded quartz.
110-115	Pebbly silty clay, medium to dark brown, loosely compacted silt as 105-110 above, common pebbles up to 1/4" diameter of clear, white, grey and green, poorly sorted, sub-rounded to rounded quartz, occasional pink fresh felspar, scattered carbonaceous minute fragments, rare finely divided mica, some of quartz grains have orange clay interstitial material stuck to them. Also some clear quartz pebbles appear frosted.

039

BORE No.11K

692094

DEPTH	STRATIGRAPHIC DESCRIPTION
115-120	Pebbly silty clay, as 110-115 above, occasional pebbles of orange siltstone, pink granite with quartz and pink felspar pebbles becoming more common.
120-125	Silty clay, medium brown, loosely to medium compacted, silt size grains as in 110-115 above, scattered clear, white, sub-rounded quartz pebbles up to 1/8" diameter.
125-130	Clay, medium brown, coarsely textured, loosely consolidated, silt size grains as 110-115 above, scattered clear, white poorly sorted, sub-rounded to rounded quartz pebbles up to 1/4" diameter, occasional pink felspar.
130-135	Silty clay, medium brown, silt size, clear, white and brown, sub-angular, medium sorted quartz, scattered finely divided mica, scattered orange and rusty brown soft clay mineral, minute scattered carbonaceous fragments, coarsely textured, moderately compacted, scattered pebbles of quartz, white, clear, and granite with felspar.
135-140	Silty clay, as 130-135 above, except pebbles more common.
140-145	Silty clay, as 130-135 above, except quartz pebbles are more Sub-angular to angular.
145-150	Silty clay, as 130-135 above.
150-145	Silty clay, as 130-135 above.
145-150	Silty clay, as 130-135 above.
150-155	Silty clay, as 130-135 above.
155-160	Silty clay, medium brown, moderately compacted; coarsely textured, silt size grains of white, brown, grey and orange quartz and clay, rare to scattered minute carbonaceous specks, scattered pebbles up to 1/8" diameter of clear and white quartz, granite?, light grey siltstone, rare fine mica.
160-165	Silty clay, as 155-160 above, except pink felspar rounded pebbles, minor rusty clay specks,
165-170	Silty clay, as 155-160 above.
170-175	Silty clay, as 155-160 above.
175-180	Silty clay, as 155-160 above, but pebbles rare, carbonaceous blebs and lignite fragments up to 1/8" sometimes present, (less then 1%).
180-185	Silty clay, medium brown, moderately compacted, medium textured, silt grains composed of brown, grey, white and orange quartz, scattered finely divided mica, rare to scattered carbonaceous fragments 1/16" diameter, rare well rounded quartz pebbles.
185-190	Silty clay, as 180-185 above, except scattered clear and white quartz pebbles up to 1/8" diameter, some red clay pebbles.

DEPTH	STRATIGRAPHIC DESCRIPTION
190-195	Silty clay, as 180-185 above.
195-200	Silty clay, as 180-185 above.
200-205	Silty clay, as 180-185 above.
205-210	Silty clay, as 180-185 above.
210-215	Silty clay, as 180-185 above.

Note: Quartz pebbles could be the result of contamination in bottom samples?

All samples : S/35/35/0

041

Q47/1 73-939

BORE # 12

692096

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, white, minor yellow and rusty orange streaks, tinges and specks, finely textured, well compacted.
5-10	Clay, white, yellow, pink, orange stringers and streaks, finely textured, well compacted.
10-15	Clay, as 5-10 above, occasional bright reddish-brown hard ferruginous? Angular clay inclusions
15-20	Clay, as 5-10 above, scattered rounded ferruginous material, dark reddish-brown nodules, finely textured, moderately compacted.
20-25	Clay, bright orange, scattered yellow, pink and white stringers and streaks, scattered dark reddish-brown ferruginous material grains and nodules, finely textured, moderately compacted.
25-30	Clay, red, purple, bright orange, yellow, minor white stringers and streaks, scattered ferruginous nodules, finely textured, moderately compacted.
30-35	Clay, as 25-30 above.
35-40	Clay, as 25-30 above
40-45	Clay, predominantly yellowish-brown, minor orange, pink, red, white stringers and streaks, scattered reddish-brown ferruginous grains, medium textured, moderately compacted.
45-50	Clay, as 40-45 above, scattered reddish-brown, ferruginous clay inclusions.
50-55	Clay, light pinkish-white, rare streaks of yellow, orange and red, medium textured, moderately compacted.
55-60	Clay, lemon and white stringers and lenses, scattered very coarsely grained and small pebbles of clear quartz up to 1/18" diameter, medium textured, moderately compacted.
60-65	Clay, very light lemon, minor orange streaks and specks, scattered very coarsely grained to angular pebbles of clear quartz.
65-70	Pebble Sand, clear, slightly smokey brown and grey, coarsely to very coarsely grained and pebbly, sub-angular, poorly sorted, quartz, dirty common light lemon brown silty interstitial material, rare orange-brown staining in ppits of large quartz grains, common quartz and quartzite pebbles up to ¾" diameter, loosely compacted.
70-75	Sand, as 65-70 above, scattered white and pink clay lenses.
75-80	Sand, as 65-70 above, except quartz is sub-angular to angular, clear, white and scattered smokey dark grey and brown and fairly clean, no staining.
80-85	Sand, as 75-80 above, minor rusty brown and orange on a few pitted quartz grains, rare mid-purplish grey volcanic rock showing felspar laths, scattered red and grey shale fragments.

..... over/

DEPTH	STRATIGRAPHIC DESCRIPTION
85-90	Pebbly Silt, medium grey, minor orange streaks, common coarsely grained to pebbles of sub-angular to rounded clear smokey quartz up to 1/8" diameter set in the silt matrix. Some of the quartz grains have bright orange staining, scattered reddish-brown ferruginous clay pebbles, scattered finely divided mica, coarsely textured, moderately compacted.
90-95	Clay, medium grey, rare finely divided mica, scattered reddish-brown ferruginous clay pebbles, scattered sub-rounded to rounded clear and smokey quartz (glassy) set in clay matrix, coarsely textured, moderately compacted.
95-100	Lithic Silt, medium grey common finely divided white clay grains, rare finely divided carbonaceous specks, scattered finely divided mica, finely textured, well compacted.
100-105	Clay, medium grey, with tinges of orange brown, rare coarse grains of light brown rounded quartz, scattered finely divided mica, medium to coarsely textured, moderately compacted.
105-110	Clay, as 100-105 above, may grade into finely textured silt.
110-115	Clay, as 100-105 above
115-120	Clay, as 100-105 above
120-125	Clay, as 100-105 above
125-130	Clay, medium grey, rare to scattered mica, rare reddish-brown clay inclusions, finely to medium textured, well compacted.
130-135	Clay, medium greyish brown, rare small orange clay inclusions, rare coarse grains of quartz, rare finely divided mica, rare angular fragments of dark reddish brown sideritic clay, medium textured, moderately compacted.
135-140	Clay, as 130-135 above, scattered carbonaceous wood fragments
140-145	Clay as 130-135 above
145-150	Clay, as 130-135 above, scattered orange lenses
150-155	Clay, as 130-135 above, scattered orange lenses
155-160	Clay, medium greyish brown, rare minute carbonaceous blebs and wood fragments, rare finely-divided mica, scattered reddish-brown sideritic inclusions, medium textured, moderately compacted.
160-165	Clay, as 145-150 above
165-170	Clay, as 145-150 above
170-175	Clay, medium greyish-brown, scattered finely divided mica, coarsely textured, moderately compacted.
175-180	Clay, as 170-175, rare coarsely grained quartz.
180-185	Clay, as 155-160 above
185-190	Clay, medium greyish-brown, as 155-160 above, scattered stringers, lenses and inclusions of white, pink and orange finely textured clay, containing fine to medium reddish clay grains.

All samples are S/37/37/0

042

BORE # 13

692098

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light brown, tinges of orange, scattered very coarse grains of quartz, finely textured, well compacted.
5-10	Silt, as 0-5 above.
10-15	Silt, as 0-5 above, common quartz, lithic and brown nodules inclusions.
15-20	Sand, clear, light brown, orange, pink, fine-very coarse grained, sub-angular, poorly sorted, quartz, very dirty common yellowish-brown silty interstitial material, scattered red, orange, grey lithic clay and shale fragments, about 20% of quartz are stained yellow or orange, rare quartz pebbles up to 1/8" diametre, friable, loosely compacted.
20-25	Sand, as 15-20 above, scattered light brown and pink, angular quartz pebbles up to ¼" diametre.
25-30	Pebble sand, clear, light brown, orange, pink, purple, white, coarsely grained to pebbly, sub-angular to angular, poorly sorted, quartz, minor quartzite, and igneous rock (dolerite) fragments, dirty, common light brown silty interstitial material, minor orange and yellow straining of quartz grains, friable, loosely compacted.
30-35	Sand, clear, white, light brown, pink, orange, yellow minor purple, very coarsely grained, sub-angular to angular, poorly sorted, quartz, minor dark igneous, (dolerite?) grains, clean, scattered light brown silty interstitial material, some of quartz is pitted and has minor yellow and orange staining, loosely compacted.
35-40	Pebble sand, white, light yellowish brown, clear, pink, orange, smokey, very coarsely grained to pebbly, angular - rounded, poorly sorted, quartz, minor black igneous pebbles, and red brown nodules, scattered rounded clay and silt pebbles, loosely compacted.
40-45	Pebble sand, as 35-40 above.
45-50	Silt, light grey, scattered mica, rare coarse specks, and coal fragments, scattered fine-coarse quartz grains, coarsely textured, loosely compacted.
50-55	Silty sand, clear, light brown, pink, very fine-fine grained, sub-angular, poorly sorted, quartz, very dirty, common medium grey silty interstitial, scattered mica, rare orange clay specks, loosely compacted.
55-60	Silt, and sand, as 50-55 above.
60-65	Silt, medium grey, rare mica, scattered medium-very coarsely grained light orange quartz, coarsely textured, moderately compacted, scattered carbonaceous fragments.
65-70	Silt, medium grey, scattered mica, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.

cont/...

DEPTH	STRATIGRAPHIC DESCRIPTION
70-75	Silt, medium grey, scattered mica, rare to scattered carbonaceous material, pebbles up to 1/16" diametre of quartz and brown clay.
75-80	Silt, medium grey, brown, minor orange, scattered mica, scattered carbonaceous blebs, fine-medium textured, moderately compacted.
80-85	Silt, as 75-80 above, occasional quartzite pebbles up to ¾" diametre.
85-90	Silt, medium, brown, grey, scattered mica, rare carbonaceous fragments, medium textured, moderately compacted.
90-95	Silt, as 85-90 above.
95-100	Silt, as 85-90 above except no carbonaceous specks.
100-105	Silt, as 95-100 above.
105-110	Silt, as 95-100 above.
110-115	Silt, medium grey, scattered finely divided mica, finely textured, moderately compacted.
115-120	Silt, as 110-115 above.
120-125	Silt, as 110-115 above.
125-130	Silt, as 110-115 above.
130-135	Silt, medium to dark greyish brown, tinges of orange, scattered finely divided mica, finely textured, moderately compacted.
135-140	Clay, medium greyish brown, scattered finely divided mica, coarsely textured, moderately compacted.
140-145	Clay, medium grey brown, scattered dark reddish brown inclusions, scattered finely divided mica, medium textured, moderately compacted.
145-150	Clay, as 140-145 above, rare orange clay streaks.
150-155	Clay, as 140-145 above.

/ All samples : S36/36/0

045

Q47|1 73-757

BORE # 14

692100

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy clay, medium brown, common fine-coarse grained, sub-angular, poorly sorted, clear, brown orange quartz and rare reddish brown ferruginous nodules set in a yellowish brown clayey and silty matrix, scattered grey clay, sub-rounded pebbles, coarsely textured, moderately compacted.
5-10	Sandy clay, as above, except sand grains are less common.
10-15	Silty sand, orange, light brown, white, yellow minor tan, very fine-medium grained, sub-angular, poorly sorted, quartz, very dirty, common yellow orange brown and white silty interstitial material, occasional reddish brown ferruginous shale inclusion, moderately compacted.
15-20	Pebble sand, clear, light brown, yellow, smokey grey, medium - very coarsely grained, sub-angular, poorly sorted quartz, very dirty, common orange, yellow, brown and white silty interstitial material, scattered orange-brown clay inclusion, common clear, white and grey pebbles of quartz, quartzite and clay up to ¾" diametre, loosely compacted, slight orange stain on most quartz.
20-25	Pebble sand, as 15-20 above.
25-30	Pebble sand, as 15-20 above, scattered, dark mineral, slight orange staining on most quartz.
30-35	Pebble sand, clear, yellow orange, light brown, coarsely grained to pebbly, sub-angular to angular, poor ly sorted quartz, dirty common yellowish brown silty interstitial material, scattered black mineral, moderately compacted.
35-40	Pebble sand, clear, white, light brown, yellow, minor smokey and orange, very coarsely grained to pebbly, sub-angular, poorly sorted quartz, clean rare brown silty interstitial material, scattered coarsely grained to pebbles of black igneous rock, quartzite, rare reddish brown ferruginous clay and shale, (sideritic) occasional quartz grains have pitting and minor yellow and orange staining.
40-45	Silt, light grey to white, silt size to very fine grained quartz set in white clay matrix, coarsely textured, loosely compacted, minor dark lithic grains.
45-50	Silt, as 40-45 above, minor medium grey stringers due to finely divided carbonaceous matter, and scattered coarsely grained quartz.
50-55	Silt, medium grey, rare to scattered minute yellow and orange clay inclusions, rare small fragments of carbonaceous material, rare finely divided mica, coarsely textured, loosely to moderately compacted.
55-60	Sandy silt, light grey to white, silt size and fine grained quartz set in white clay matrix, coarsely textured, moderately-loosely compacted.
60-65	Sandy silt, as 55-60 above.
65-70	Sandy silt, as 55-60 above, scattered medium grey silt stringers, scattered carbonaceous specks and fragments.

cont/...

DEPTH	STRATIGRAPHIC DESCRIPTION
70-75	Sandy silt, as 65-70 plus scattered mica.
75-80	Silty sand, clear, occasional light brown, silt size to finely grained, sub-angular, medium-well sorted, quartz, very dirty, common white clayey interstitial material, rare carbonaceous specks, loosely compacted.
80-85	Silty clay, medium to dark grey, scattered very fine dirty mica and rare minute carbonaceous specks, scattered white clay grains, coarsely textured, moderately compacted.
85-90	Silty sand, as 75-80 above.
90-95	Silty sand, as 75-80 above.
95-100	Silty sand, as 75-80 above, rare orange specks and rare mica.
100-105	Sandy silt, as 65-70 above, occasional yellow-orange stringers.
105-110	Silty sand, light grey, clear, white light brown, silt size to finely grained, sub-angular, poorly sorted quartz, very dirty, common light grey and white silty and clayey interstitial material, scattered white clay grains, occasional brown-black well rounded ferruginous? pebbles up to 1/16" in diameter.
110-115	Silty sand, as 105-110 above.
115-120	Silty sand, as 105-110 above.
120-125	Silty sand, as 105-110 above.
125-130	Silty sand, as 105-110 above, scattered to rare medium yellow-brown silt lenses, bright reddish orange ferruginous shale inclusions, scattered coarsely grained quartz.
130-135	Sandy silt, medium grey, common fine-very coarse grains of quartz, rare carbonaceous specks, rare medium reddish-brown nodules.
135-140	Clay, light grey, light yellowish brown, orange, minor white, scattered coarse grains of quartz and rare reddish brown nodules, rare carbonaceous wood fragments, medium textured, moderately compacted.
140-145	Clay, white minor orange and yellow, scattered coarse grains of quartz, finely textured, moderately compacted.
145-150	Clay and silt, white and yellow stringers, scattered fine-coarse grains of quartz, medium-coarsely textured, moderately compacted.
150-155	Clay, as 140-145 above.
155-160	Sandy clay, white, minor orange, common coarse grains of angular quartz, coarsely textured, loosely to moderately compacted.
160-165 / Sideritic	Clay, orange, medium brown, yellow, white, stringers and streaks, scattered medium-coarse quartz grains, rare brown and purplish brown nodules of clay, coarsely textured, moderately compacted.

/ All samples : S35/35/0

DEPTH	STRATIGRAPHIC DESCRIPTION
165-170	Sandy clay and silt, orange and white stringers and mottled in places, common brown and clean quartz and nodules, medium to coarsely textured, moderately compacted.
170-175	Clay, white, rare to scattered mica, rare very finely divided carbonaceous specks, coarsely textured, moderately compacted.
175-180	Clay, white and yellow stringers and streaks, rare mica, rare coarsely grained quartz.

/ All samples : S35/35/0

048

692103

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, medium orange-brown, scattered white sandy clay lenses, occasional angular, black ferruginous fragment with orange and red limonitic coating, coarsely textured, moderately compacted.
5-10	Silt, medium orange-brown, scattered medium grey patches, scattered fine-medium grained, clear and brown quartz, scattered medium to dark grey quartzite pebbles up to 1/8" diameter, rare orange brown siderite fragments, coarsely textured, moderately compacted.
10-15	Sand, clear, light brown, orange, minor yellow, red, finely to coarsely grained, sub-angular, poorly sorted, quartz, very dirty, common brown silty interstitial material, orange ferruginous and black staining of 50% of the individual grains, scattered quartzite and igneous, very coarse grains, loosely compacted.
15-20	Sand, as 10-15 above.
20-25	Sand, as 10-15 above, 75% of grains have either orange, red or black staining.
25-30	Clay, orange and yellowish brown stringers, scattered clear and light brown quartz, grey quartzite, scattered limonitic coated ferruginous nodules, scattered sideritic clay inclusions, coarsely textured, moderately compacted.
30-35	Clay, light fawn, scattered orange and dark brown clay inclusions, scattered ferruginous and sideritic clay inclusions, scattered white and grey very coarse grains of quartz and quartzite, medium to coarsely textured, moderately compacted.
35-40	Clay, light to medium orange-brown and light fawn stringers, scattered small reddish-brown and orange-brown sideritic clay inclusions, rare bright bluish green plastic fragment, (possibly off one of the sample bag chips)
40-45	Clay, medium brown, fawn, scattered orange stringers and grey inclusions, rare red-brown ferruginous clay fragments, scattered finely divided mica, rare quartz grains, finely to medium textured, moderately compacted.
45-50	Clay, as 40-45 above, common ferruginous nodules and sideritic clay fragments.
50-55	Clay, medium greyish brown, scattered orange lenses, scattered red-brown sideritic clay fragments, scattered brown quartzite fragments, coarsely textured, moderately compacted.
55-60	Clay, medium to dark brown, scattered red-brown sideritic clay fragments, scattered yellow stained angular quartz fragments, scattered mica, finely to medium textured, moderately compacted.
60-65	Clay, as 55-60 above, rare coal fragments
65-70	Clay, as 55-60 above.
70-75	Clay, as 55-60 above, ferruginous shale, slatey fragments.
75-80	Clay, as 55-60 above.
80-85	Clay, as 55-60 above, scattered orange clay inclusions.
85-90	Clay, as 55-60 above, common white finely textured silt interbeds.
90-95	Clay, as 85-90 above
95-100	Clay, as 85-90 above.

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BORE # 15

DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Clayed Sand, clear, fine to medium grained, sub-angular to sub-rounded, poorly sorted, quartz, extremely dirty, common white clayey interstitial material, rare orange limonitic staining on occasional quartz grain, loosely compacted.
105-110	Clayey Sand, as 100-105 above, and common light brown silty sand interbeds.
110-115	Clayey Sand, as 100-105 above.
115-120	Clayey Sand, as 100-105 above, rare orange siderite clusters.
120-125	Clayey Sand, as 100-105 above, rare orange siderite clusters.

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050

692105

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, orange, minor light grey streaks, scattered red-brown sideritic clay inclusions, finely to medium textured, moderately compacted.
5-10	Clay, as 0-5 above.
10-15	Clay, as 0-5 above, rare sideritic clay.
15-20	Clay, as 0-5 above, no sideritic clay.
20-25	Clay, as 0-5 above.
25-30	Clay, medium fawn, slightly waxy appearance, finely textured, moderately compacted.
30-35	Clay, as 20-25 above, occasional reddish-black ferruginous nodule, rare pink quartz.
35-40	Clay, white, medium and light brown, orange and yellow stringers and streaks, scattered white silty lenses, medium sorted, coarsely textured, moderately compacted.
40-45	Silt, white, scattered medium to dark brown clay inclusions, and lenses, finely to medium textured, moderately compacted.
45-50	Clay, medium grey and brown, scattered orange stringers, orange brown inclusions, rare loose quartz, finely to medium textured, moderately compacted.
50-55	Clay, medium grey and orange stringers, scattered red-brown siderite nodules, rare carbonaceous wood fragments, medium textured, moderately compacted.
55-60	Clay, as 50-55 above.
60-65	Clay, dark brown, orange stringers, finely textured, moderately compacted.
65-70	Clay, as 60-65 above.
70-75	Clay, as 45-50 above, scattered carbonaceous matter.
75-80	Clay, orange, finely textured, moderately compacted.
80-85	Clay, as 75-80 above.
85-90	Clay, very light grey to white stringers, rare orange inclusions, scattered carbonaceous wood fragments, scattered orange-brown sideritic clay fragments.
90-95	Clay, as 85-90 above, becoming silty and sandy.
95-100	Clay, light grey, silty, common carbonaceous wood fragments, rare to scattered brown siderite nodule aggregates.
100-105	Clay, as 95-100 above.
105-110	Clay, light, medium and dark grey stringers, scattered carbonaceous wood fragments, medium textured, moderately compacted.
110-115	Clay, as 95-100 above.
115-120	Carbonaceous Mud, black, rare light grey stringers, common carbonaceous wood fragments 50%, rare orange glassy mineral, coarsely textured, loosely compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
120-125	Clay, medium to dark grey, scattered common carbonaceous mud and wood fragments, rare mica, medium textured, moderately compacted.
125-130	Clay, as 105-110 above, common carbonaceous mud and wood fragments, rare orange glassy mineral.
130-135	Clay, white, scattered carbonaceous wood fragments, rare orange silt, rare angular clear to white very coarse quartz, coarsely textured, moderately compacted.
135-140	Clay, medium grey, minor white lenses, scattered carbonaceous wood fragments and carbonaceous mud, coarsely textured, moderately compacted.
140-145	Clay, medium to dark brown, occasional white lenses, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
145-150	Clay, medium grey, scattered very finely divided mica, rare coal fragments, medium to coarsely textured, moderately compacted.
150-155	Clay, as 105-110 above.
155-160	Clay, as 145-150 above.
160-165	Clay, as 145-150 above, common carbonaceous wood fragments.
165-170	Clay, as 160-165 above.

All samples: S35/35/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sand, yellow, light brown, clear, minor orange finely to medium grained, sub-angular, poorly-sorted, quartz, extremely dirty, common orange silty interstitial material, scattered very coarsely grained and pebbles up to 1/16" diameter of quartz, scattered orange, yellow, red and white clay lenses, scattered dark brown ferruginous rounded nodules, few of quartz grains, owe their orange colour to slight staining.
5-10	Sandy Silt, orange, minor white lenses, scattered stringers of orange and yellow clay, scattered purplish-red ferruginous well rounded nodules, scattered soarse grains of angular orange quartz, coarsely textured, moderately compacted.
10-15	Sand, clear, yellow, orange, brown, very fine to finely grained, sub-angular, medium to well sorted, quartz, very dirty, common mottled orange and white silty interstitial material, rare carbonaceous blebs, loosely to moderately compacted.
15-20	Sand, as 10-15 above
20-25	Clay, white to light grey, scattered streaks and lenses of pink and yellow, occasional purplish-red rounded ferruginous nodules, finely textured, well compacted.
25-30	Clay, finely laminated stringers and streaks of light orange, yellow, pink and white, thicker lenses of white and orange, finely textured, well compacted.
30-35	Clay, orange, minor dark brown streaks and inclusions, finely textured, well compacted.
35-40	Clay, yellow, orange, purple, red, minor white and dark brown lenses and inclusions, occasional ferruginous nodules, finely to medium textured, moderately compacted.
40-45	Clayey Sand, clear, medium to coarsely grained, sub-angular to angular, poorly sorted quartz, extremely dirty, common white and yellow clay matrix, moderately compacted.
45-50	Sand, clear, minor light brown, medium to coarsely grained, sub-angular, poorly sorted, quartz very dirty, common white and yellow clayey interstitial material, friable, loosely compacted.
50-55	Sandy Clay, very light fawn, yellow tinges, light yellowish brown, white, common clear and smokey coarsely grained quartz set in clay matrix, scattered stringers of medium grey yellow silt, 30% of the pieces of clay and silt are hard and silicified, coarsely textured, very well compacted.
55-60	Clay, mottled salmon pink, yellow, orange, white, medium and dark grey, also inclusions of soft black carbonaceous mud, rare angular large fragment of clear quartz inclusions, fine to medium textured, moderately compacted
60-65	Clay, mottled, dark brown, orange, yellow, white, scattered very coarse grains of clear angular quartz, rare to scattered soft carbonaceous mud, medium textured, moderately compacted.
65-70	Clay, medium grey, scattered to rare black soft carbonaceous mud, scattered coarsely grained, sub-angular, clear quartz inclusions, coarsely textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
70-75	Clay, medium to dark grey, minor inclusions of yellow, orange, pink and white clay, coarsely textured, moderately compacted.
75-80	Clay, medium to dark grey, minor orange and yellow inclusions and specks, scattered carbonaceous wood fragments, scattered finely divided mica, rare medium grained, sub-angular quartz, coarsely textured, moderately compacted.
80-85	Clay, as 75-80 above.
85-90	Clay, as 75-80 above, but no carbonaceous wood fragments
90-95	Clay, as 85-90 above.
95-100	Clay, medium grey, minor white, pink and yellow streaks and stringers, rare mica, coarsely textured, moderately compacted.
100-105	Silt, medium grey, minor white, pink, yellow and orange clay stringers and inclusions, rare to scattered, very coarsely grained, angular clear quartz, medium textured, moderately compacted.
105-110	Silt, as 100-105 above
110-115	Silty Lithic Sandstone, medium greenish-grey, clear, greyish-grey, minor yellow, very fine grained, sub-angular, medium sorted quartz, very dirty, common greenish-grey and light brown silty interstitial material, rare minute carbonaceous specks, well compounded, hard.
115-120	Silty Lithic Sandstone as 110-115 above, rare, small black carbonaceous mud inclusions.
120-125	Silty Sandstone as 110-115 above, scattered lenses of white and yellow clay.
125-130	Lithic Sand, clear, light greenish-grey, medium grey, light to yellow and pink, finely grained, sub-angular, medium sorted quartz very dirty, common greenish-grey, light grey and minor yellow clayey and silty interstitial material, scattered lenses and stringers of white, pink, lemon clay, moderately compacted.
130-135	Sand, as 125-130 above
135-140	Sand, as 125-130 above, loosely to moderately compacted
140-145	Clay, light medium grey, minor pink, finely to medium textured moderately to well compacted.
145-150	Interbedded Sand, (50%) as 125-130 above and clay (50%) as 140-145 above.
150-155	Sand, as 125-130 above.
155-160	Interbedded Sand (75%) as 125-130 above and clay (25%) as 140-145 above.
160-165	Lithic Sand, clear, finely to medium grained, sub-angular, medium-sorted quartz, soft white and greenish-grey finely to medium grained, rounded, poorly sorted, hard clay grains, dirty common white and grey silty and clayey interstitial material, scattered lenses and streaks of yellow, orange and white clay, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
165-170	Sand, as 160-165 above
170-175	Sand, as 160-165 above, but becoming very clayey and scattered bright pink clay inclusions.
175-180	Shale, reddish-brown, green, grey, brown, finely to medium textured, hard and well compacted. Scattered lithic grey-green sandstone fragments as 115-120 above (Triassic red beds?).
180-185	Shale, as 175-180 above.

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055

BORE # 22

692110

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, bright orange-brown, scattered rounded reddish-brown ferruginous nodules up to ¼" in diameter, rare silty streaks, finely-textured, waxy in appearance, moderately compacted.
5-10	Clay, yellowish-brown and minor medium grey, scattered finely to very coarsely grained clear and rose-coloured sub-rounded quartz, finely to medium textured, moderately compacted.
10-15	Clay, as 5-10 above
15-20	Sandy Silt, light brown, orange and white common fine to medium quartz grains, coarsely textured, moderately compacted.
20-25	Sand, predominantly clear, scattered light brown and smokey-grey minor yellow, pink finely to medium grained, sub-angular, medium sorted quartz, clean, scattered light brown, orange and white clay grains, scattered orange silt inclusions, friable, loosely compacted, rare reddish-brown ferruginous staining in about 2% of quartz.
25-30	Clay, orange, yellow, light grey, rare red stringers, scattered stringers and lenses of finely grained sand, scattered rounded reddish-brown to black ferruginous nodules, one rounded fragment of hard, black quartz? Scattered coarsely grained quartz grains, finely to coarsely textured, moderately compacted.
30-35	Clay, yellow,orange and white stringers and streaks, rare inclusions of coarsely-grained quartz, finely textured, moderately compacted.
35-40	Clay, orange-brown, scattered light grey stringers, rare pink silt lenses, occasional reddish-brown ferruginous nodules, rare light brown fine to medium quartz grains, finely textured, well-compacted.
40-45	Clay, as 35-40 above.
45-50	Clay, dark chocolate brown, orange and yellow stringers, minor white lenses, occasional very coarse grains of sub-rounded clear quartz, medium-textured, moderately compacted.
50-55	Clay, as 45-50 above, but orange is predominant.
55-60	Clay, dark chocolate brown, rare orange clay and white silt inclusions, medium-textured, moderately compacted.
60-65	Clay, as 50-55 above
65-70	Clay, as 50-55 above
70-75	Clay, as 50-55 above
75-80	Clay, dark chocolate brown, rare light brown, yellow and orange tinges, scattered finely divided mica, medium-textured, moderately compacted.
80-85	Clay, as 70-75 above.
85-90	Clay, as 70-75 above, occasional coarse grains of light brown quartz.
90-95	Clay, medium and dark brown, scattered light fawn stringers, rare orange clay blebs, rare finely divided mica, finely to medium textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
95-100	Clay, medium to dark brown with occasional reddish-orange tinges , scattered mottled orange and white silt stringers, one large rounded pebble of white quartzite, medium-textured, moderately compacted.
100-105	Clay, as 70-75 above
105-110	Clay, as 70-75 above
110-115	Clay, as 70-75 above
115-120	Clay, as 70-75 above
120-125	Clay, dark and medium brown, scattered medium brown, yellow and orange sandy silt lenses, rare carbonaceous wood fragments, rare mica, medium to coarsely textured, moderately compacted.
125-130	Clay, as 120-125 above.
130-135	Clay, medium to dark brown, scattered light brown, medium brown, white and yellow silt stringers and lenses, rare orange and yellow clay lenses, coarsely textured, moderately compacted.
135-140	Clay, medium brown, scattered medium brown and white silt stringers, coarsely textured, moderately compacted
140-145	Clay, medium to dark brown, scattered light brown and grey silt stringers, scattered carbonaceous wood fragments, medium textured, moderately compacted.
145-150	Silt, light and medium brown, minor orange, scattered clay as 140-145 above, scattered warbonaceous wood fragments and matter, rare sideritic clay, medium to coarsely textured, moderately compacted.
150-155	Silt and Clay as 145-150 above
155-160	Silt and Clay as 145-150 above, occasional yellow clay streaks
160-165	Clay as 140-145 above
165-170	Interbedded Clay and Silt as 145-150 above.
170-175	Clay, medium brown, minor white, yellow and orange stringers and lenses, scattered medium brown silt, scattered carbonaceous wood fragments, scattered reddish-brown ferruginous nodules.
175-180	Clay, medium brown and scattered orange stringers and lenses, scattered white silt stringers, occasional coarse grains of clear quartz, rare carbonaceous wood fragments, medium textured, moderately compacted.
180-185	Silt, white, light grey, light brown, scattered white, medium brown stringers and rare orange clay inclusions, scattered carbonaceous wood fragments, rare mica, scattered orange waxy clay clusters and rare very coarsely grained orange-brown quartz, medium-textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
185-190	Silt and Clay, as 180-185 above.
190-195	Clay, medium and dark brown with occasional orange tinges, scattered light brown silt stringers, scattered to rare carbonaceous wood fragments, scattered yellow and orange brittle glassy mineral, rare reddish-brown clay grains.
195-200	Clay, medium, light brown, orange stringers, scattered light brown silt stringers, scattered carbonaceous blebs and wood fragments, scattered finely grained reddish-brown clay nodules, occasional large quartz grains.
200-205	Sandy Silt, light brown, scattered orange lenses and rare white clay inclusions, scattered carbonaceous matter and wood fragments, scattered to common finely to medium grained, sub-angular, clear quartz grains, coarsely textured, moderately compacted.
205-210	Sandy Clay, white to light grey, scattered finely grained clear quartz and orange quartz? aggregates, scattered carbonaceous wood fragments, rare brown clay inclusions, coarsely textured, moderately compacted.
210-215	Sandy Clay as 205-210 above.
215-220	Clay, dark to medium greyish brown, orange and fawn stringers, scattered white silt lenses, scattered carbonaceous wood fragments, scattered finely grained, sub-rounded clear quartz, medium textured, moderately compacted.
220-225	Clay, light grey and brown, white and orange stringers, scattered lenses of silt, scattered finely grained clear quartz and reddish-brown quartz? grains, occasional coarsely grained light brown quartz, rare carbonaceous matter, coarsely textured, moderately compacted.
225-230	Clay, as 220-225 above, scattered dark brown clay stringers, scattered carbonaceous matter.
230-235	Clay, as 225-230 above, scattered reddish-brown clay? clusters of nodules.
235-240	Clay, medium brownand grey, scattered fawn and white stringers, occasional orange and yellow inclusions, scattered carbonaceous wood fragments, scattered reddish-brown clay? clusters, scattered white and light brown rounded quartz pebbles up to 1/8" diameter, scattered sideritic? clay, rounded, pebbles, coarsely textured, moderately compacted. (sideritic)
240-245	Clay, as 235-240 above, scattered light brown silt stringers, no pebbles.
245-250	Clay, medium brown, light grey to white, scattered orange-brown stringers, rare orange small inclusions, scattered light brown silt and very finely grained sand lenses, scattered carbonaceous wood fragments, scattered sideritic clay inclusions and nodules, coarsely textured, moderately compacted.
250-255	Clay, as 245-250 above, becoming more silty, rare brown sideritic? nodules.

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	STRATIGRAPHIC DESCRIPTION
255-260	Silt, medium brown and white stringers, scattered clay stringers as clay in 250-255 above, rare orange patches, scattered carbonaceous wood fragments, rare, reddish-brown sideritic clusters or nodules, finely to medium textured, moderately compacted.
260-265	Sandy Silt, light grey, scattered medium grey clay lenses, rare sideritic clay fragments, rare carbonaceous wood fragments, coarsely textured, moderately compacted.
265-270	Clay, medium grey, scattered yellow stringers, scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments, medium textured, moderately compacted.
270-275	Clay, medium brown, light grey, scattered orange stringers, scattered silt and finely grained sand lenses, scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay clusters and inclusions, finely to medium textured, moderately compacted.
275-280	Clay, as 270-275 above
280-285	Clay, as 270-275 above
285-290	Clay, as 270-275 above
290-295	Clay as 270-275 above
295-300	Clay, light brown and grey, scattered orange inclusions, rare to scattered carbonaceous wood fragments, rare reddish-brown sideritic nodules, medium-textured, moderately compacted.
305-310	Clay, as 295-300 above
310-315	Clay, medium grey and brown, orange and light grey stringers, scattered carbonaceous wood fragments, scattered reddish-brown sideritic nodules, limonitic-coated ferruginous nodules, finely to medium textured, moderately compacted.
315-320	Clay, as 310-315 above.
320-325	Clay, medium grey, scattered orange and rare yellow stringers, scattered small reddish-brown sideritic clay nodules and grains, coarsely textured, moderately compacted.
325-330	Clay, as 320-325 above.
330-335	Clay, and 320-325 above
335-340	Clay, medium brown and grey, white to light grey, scattered orange clay inclusions, scattered carbonaceous wood fragments, scattered red-brown and orange sideritic clusters or nodules and inclusions, scattered finely-grained clear quartz grains, medium to coarsely textured, moderately compacted.
340-345	Clay, as 335-340 above.
345-350	Clay, light to medium grey, scattered orange siderite nodules and limonitic-coated sideritic clay inclusions.

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DEPTH	STRATIGRAPHIC DESCRIPTION
350-355	Clay, medium brown, grey, orange, yellow, and white stringers, scattered white silt lenses, scattered carbonaceous wood fragments, rare red-orange limonitic stained, magnetitic shale plate fragments, coarsely textured, moderately compacted.
355-360	Silty Clay, as clay in 350-355 above.
360-365	Silty Clay, as clay in 350-355 above
365-370	Silty Clay, as clay in 350-355 above
370-375	Silty Clay, as clay in 350-355 above, often ferruginous reddish-orange and brown tinges (staining)?
375-380	Clay, light to medium grey, scattered orange inclusions, scattered to common sideritic nodules and sideritic clay inclusions, scattered carbonaceous wood fragments, ferruginous orange silt lenses, coarsely-textured, moderately compacted.
380-385	Clay, as 375-380.
385-390	Clay, as 375-380
390-395	Clay, as 375-380
395-400	Clay, as 375-380, becoming silty
400-405	Clay, as 395-400
405-410	Clay, as 395-400
410-415	Clay, as 395-400, rare white rounded pebbles of quartz 1/8" diameter.
415-420	Clay, as 395-400, scattered dark brown clay stringers
420-425	Clay, as 415-420 above.
425-430	Clay, as 415-420
430-435	Clay, light grey, scattered medium brown stringers, rare orange, yellow and white clay patches, scattered to common orange-brown siderite nodules and clusters, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
435-440	Clay, as 430-435 above
440-445	Clay, as 430-435 above
445-450	Clay, as 430-435 above
450-455	Clay, as 430-435 above, common 40% coal and carbonaceous wood fragments.
455-460	Clay, as 450-455 above.
460-465	Clay, as 430-435 above

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DEPTH	STRATIGRAPHIC DESCRIPTION
465-470	Clay, as 430-435 above
470-475	Clay, light, medium to dark brown and grey, scattered carbonaceous wood fragments, scattered red-brown sideritic clay fragments, medium to coarsely textured, moderately compacted.
475-480	Clay as 470-475
480-485	Clay, as 470-475, coarsely textured
485-490	Clay, as 470-475, finely textured.

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061

BORE # 23

692116

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, orange, minor light-grey stringers and streaks, finely-divided mica, finely-textured, well compacted.
5-10	Clay, as 0-5 above, white and light-grey stringers are more common, rare pisolitic nodules.
10-15	Clay, brownish-orange, rare white silt lenses, rare finely-divided mica, rare coarsely-grained quartz, medium-textured, moderately compacted.
15-20	Clay, brownish-orange, rare pink and white streaks, medium-textured well compacted.
20-25	Clay, brownish-orange, scattered finely-divided mica, rare carbonaceous blebs, rare white silt inclusions, medium-coarsely textured, moderately compacted.
25-30	Clay, as 20-25 above.
30-35	Clay, orange, light-grey, fawn stringers and streaks, medium-textured, well compacted.
35-40	Clay, orange, yellow, light fawn stringers, rare dark brown specks, medium-textured, moderately compacted.
40-45	Clay, dark brown, orange, yellow, fawn stringers and streaks, medium-coarsely textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, dark brown, scattered finely-divided mica, coarsely-textured, moderately compacted.
55-60	Clay as 50-55 above.
60-65	Clay as 40-45 above, scattered finely-divided mica.
65-70	Clay as 60-65 above, scattered carbonaceous specks.
70-75	Clay dark chocolate brown and orange stringers, medium-textured, moderately compacted.
75-80	Clay, as 70-75 above, scattered finely-divided mica.
80-85	Clay, as 75-80 above.
85-90	Clay, as 75-80 above.
90-95	Clay, very dark brown to black, orange stringers, scattered finely-divided mica, coarsely-textured, moderately compacted.
95-100	Clay, as 75-80 above, scattered carbonaceous wood fragments.
100-105	Clay, as 75-80 above.
105-160	Clay, as 75-80 above, but predominantly medium to dark brown and only minor orange.

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DEPTH	STRATIGRAPHIC DESCRIPTION
110-115	Clay, as 75-80 above.
115-120	Clay, medium to dark brown, scattered finely-divided mica, rare orange streaks, coarsely-textured, moderately compacted.
120-125	Clay, as 75-80 above.
125-130	Clay, as 75-80 above.
130-135	Clay, as 115-120 above.
135-140	Clay, dark brown, scattered orange inclusions and blebes, medium-textured, moderately compacted.
140-145	Clay, as 105-110 above.
145-150	Clay, medium-brown, rare orange-brown inclusions, rare finely-divided mica, medium-textured, well compacted.
150-155	Clay, as 115-120 above.
155-160	Clay, as 115-120 above.
160-165	Clay, dark brown to black, finely to medium textured, moderately compacted.
165-170	Clay, as 115-120 above.
170-175	Clay, as 115-120 above.
175-180	Clay, dark brown, scattered orange and light tan inclusions, medium-textured, moderately compacted.
180-185	Clay, as 75-80 above.
185-190	Clay, as 75-80 above.
190-195	Clay, as 75-80 above.
195-200	Clay, as 115-120 above.
200-205	Clay, as 115-120 above.
205-210	Clay, as 75-80 above.
210-215	Clay, as 115-120 above.
215-220	Clay, medium gray, rare orange inclusions, rare finely-divided mica, scattered rare carbonaceous wood fragments, medium-textured, moderately compacted.
220-225	Clay, as 215-220 above.
225-230	Clay, as 215-220 above.
230-235	Clay, medium grey, scattered carbonaceous wood fragments, rare clear angular coarse quartz grains, coarsely-textured, moderately compacted.

..... over/

DEPTH	STRATIGRAPHIC DESCRIPTION
235-240	Clay, as 230-235 above, scattered white clay stringers and minor orange inclusions.
240-245	Clay, as 235-240 above.
245-250	Clay, as 235-240 above, but no white stringers
250-255	Clay, as 235-240 above, but no white stringers, large angular clear quartz.
255-260	Clay, as 235-240 above.
260-265	Clay, medium grey, light brown, orange inclusions and lenses, scattered carbonaceous wood fragments and coal pieces, scattered angular clear brown quartz and dolerite grains and pebbles up to 1/16" in diameter, rare mica, coarsely-textured, moderately compacted.
265-270	Clay, medium greyish-brown, scattered white clay stringers, scattered carbonaceous wood fragments, scattered coarse grains and pebbles of clear quartz and quartzite.
270-275	Clay as 265-270 above.
275-280	Clay, medium dark greyish-brown, orange stringers, rare white silt lenses, scattered carbonaceous blebs and fragments, common loose quartz grain, coarsely-textured, moderately compacted.
280-285	Clay, medium greyish-brown, rare fine grains of clear quartz, rare black platey magnetite, fine-textured, moderately compacted.
285-290	Clay, medium grey, scattered lenses of white silt and fine grains sandstone, common loose quartz grains, common carbonaceous wood fragments, coarsely textured, moderately-loosely compacted.
290-295	Silt, medium grey, common fine to coarse grains of clear quartz and white sub-angular clay fragments set in light to medium grey brown and white silty matrix, scattered carbonaceous wood fragments, corarsely-textured, loosely to moderately compacted.
295-300	Sandy silt mottled white and medium to dark grey, common fine grains of clear quartz, scattered carbonaceous wood fragments, rare reddish-brown slightly limonitic clay inclusion, coarsely-textured, loosely to moderately compacted.
300-305	Sandy Silt as 295-300 above.
305-310	Sandy Silt as 295-300 above.
310-315	Sandy Silt as 295-300 above.
315-320	Silt, medium brown, scattered white and orange lenses and inclusions, common fine to clear quartz grains, scattered platey limonite, stained magnetite, coarsely-textured, loosely compacted.
320-325	Clay, medium brown, orange, light tan stringers, scattered coarse grains of clear quartz, scattered carbonaceous wood fragments, medium to coarse texture, moderately compacted.
325-330	Clay, as 320-325 plus stringers of sandy silt.

..... over/

064

BORE # 23

692119

DEPTH	STRATIGRAPHIC DESCRIPTION
330-335	Clay, medium greyish-brown, scattered white silt lenses, rare limonitic clay nodules, rare limonite stained platey magnetite, scattered carbonaceous wood fragments, fine to medium textured, moderately compacted.
335-340	Clay, as 330-335 above, scattered clear fine to very coarse quartz grains.
340-345	Clay, medium greyish-brown, scattered orange stringers, scattered orange and yellow limonitic clay hard inclusions, medium textured moderately compacted.
345-350	Clay, medium brown, minor orange, yellow and white stringers, scattered carbonaceous wood fragments, scattered fine to coarse clear and light brown quartz grains, scattered limonitic magnetitic shale plates, medium textured, moderately compacted.
350-355	Clay, as 345-350 above.
355-360	Clay, medium and light grey scattered stringers of silt, common clear and reddish-brown quartz (fine-grained), coarsely textured, moderately compacted.
360-365	Silty Clay, light and medium grey, white stringers and inclusions, rare orange, scattered carbonaceous wood fragments, medium-coarse texture, moderately compacted.
365-370	Clay, medium grey, minor orange, brown, yellow and white inclusions, scattered very fine grains of orange-brown quartz, fine to medium textured, moderately compacted.
370-375	Clay, as 365-370 above, scattered lenses of fine-grained sand.
375-380	Clay, as 365-370 above, scattered carbonaceous wood fragments.
380-385	Clay, medium grey, scattered orange lenses and inclusions, scattered clear coarsely grained quartz, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
385-390	Clay, as 365-370 above, scattered carbonaceous wood fragments.
390-395	Silty Sand, clear, medium-brown, light-brown, orange, yellow, fine-grained, sub-angular, medium to poorly sorted quartz, very dirty, common silty interstitial material, scattered stringers of silt and clay as 380-385 above.
395-400	Silty Sand, as 390-395 above.
400-405	Silty Sand, as 390-395 above.
405 - 410	Silty Sand, as 390-395 above, but no clay stringers.
410-415	Silty Sand, as 390-395 above, plus limonitic black magnetitic shale plates
415-420	Silty Sand, as 410-415 above.
420-425	Silty Sand, as 410-415 above, common orange clay stringers.
425-430	Silty Sand, as 420-425 above

..... over/

DEPTH	STRATRIGRAPHIC DESCRIPTION
430-435	Silty Sand, clear, minor light brown or yellow, fine to coarse grained, sub-angular, poorly-sorted quartz, very dirty, common light brown, yellow, orange white Silty interstitial material, scattered carbonaceous wood fragments, rare white mica, friable loosely compacted
435-440	Silty Sand, as 430-435 above.
440-445	Silty Sand, as 430-435 above
445-450	Silty Sand, as 430-435 above, scattered medium grey clay stringers.
450-455	Silty Sand, as 445-450, plus scattered orange clay stringers and limonitic stained magnetitic shale plates.
455-460	Silty Sand, as 430-435 as above and common stringers of orange clay.
460-465	Sandy Clay, medium grey, minor orange, yellow and white, common clear light brown, orange quartz grains, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
465-470	Clay, mottled, medium grey, brown, yellow, orange, white, scattered carbonaceous blebs and wood fragments, scattered magnetitic shale plates, scattered clear, light brown and reddish-brown fine to coarsely grained quartz, coarsely textured, loosely to moderately compacted.
470-475	Clay, as 465-470 above.
475-480	Clay, as 465-470 above, no loose quartz.
480-485	Clay, predominantly medium and dark grey, scattered white, orange, yellow, brown, stringers, scattered carbonaceous wood fragments.
485-500	Missing.

All these samples are S/36/36/0

066

Q47/1 73-934

BORE No.24

692121

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty clay, light, orange and brown, coarsely textured, loosely compacted, rare clear fine grained quartz inclusions.
5-10	Silt, medium to dark blue grey, coarsely textured, loosely compacted, common very finely divided mica (pyrite?) occasional orange clay inclusions.
10-15	Silt, as 5-10 above.
15-20	Silt, as 5-10 above.
20-25	Silt, as 5-10 above.
25-30	Silt, as 5-10 above.
30-35	Silt, as 5-10 above.
35-40	Silt, as 5-10 above, becoming finely textured, highly micaceous, black, shiny and irridescent (pyrite?)
40-45	Silt, as 5-10 above.
45-50	Silty mudstone, medium-dark grey, coarsely textured, moderately compacted, common very finely divided mica, rare carbonaceous fragments, rare clear quartz grains, rare orange and brown silt inclusions, rare pyrite.
50-55	Silty mudstone, as 45-50 above, scattered light yellow and green silty and clayey interstitial material, but no pyrite.
55-60	Mudstone, dark grey, finely textured, moderately well compacted, common very finely divided mica, rare light yellow and green silt inclusions.
60-65	Mudstone, dark grey, as 55-60 above.
65-70	Silty mudstone, as 50-55 above.
70-75	Silt, medium to dark grey as 5-10 above.
75-80	Silt, as 70-75 above, but only scattered mica.
80-85	Silt, as 75-80 above, rare

All samples : S/35/35/0

067

Q47/1 73-939

BORE No. 25

692122

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light yellow brown, coarse textured, moderately compacted, silt size, sub-angular to angular, clay fragments when wet.
5-10	Clay, as 0-5 above.
10-15	Silt, medium grey, finely textured, moderately compacted, scattered very fine divided mica.
15-20	Silty mudstone, medium to dark grey, coarse textured, moderately compacted, scattered orange to brown clay inclusions, one cube of pyrite, very finely divided shiney mineral (mica?)
20-25	Silty mudstone, as 15-20 above, but no pyrite cubes noted in this sample.
25-30	Silty mudstone, as 20-25 above.
30-35	Silty mudstone, as 20-25 above.
35-40	Silty mudstone, as 20-25 above.
40-45	Silty mudstone, as 20-25 above. Occasional light grey to white colour.
45-50	Silty mudstone, light grey, coarsely textured, moderately compacted, scattered very finely divided mica, scattered white soft crystalline material?
50-55	Silty mudstone, as 45-50 above.
55-60	Silty mudstone, as 45-50 above.
60-65	Silty mudstone, as 45-50 above. Loosely compacted.
65-70	Silty mudstone, as for 60-65 above.
70-75	Silty mudstone, light grey, coarsely textured, loosely compacted, rare to scattered, yellow, orange, red clay specks, rare carbonaceous minute fragments, rare to scattered mica.
75-80	Silty mudstone, as 70-75 above.
80-85	Silty mudstone, light yellow brown, coarsely textured, loosely compacted, rare mica, rare to scattered minute yellow to orange clay specks, rare carbonaceous specks.
85-90	Silty mudstone, as 80-85 above, but yellow clay inclusions more common.

All samples : S/35/35/0

068

BORE No. 26

Q47/1 73-939

692123

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty clay, light yellow and brown, coarsely textured, moderately compacted, scattered to rare carbonaceous fragments, rare clear quartz grains.
5-10	Clayey silt, light yellow, white, coarsely textured, scattered orange clay inclusions, moderately to loosely compacted.
10-15	Clayey silt, as 5-10 above.
15-20	Silty mudstone, medium dark, grey, finely textured, well compacted, common finely divided mica, occasional chips have a yellowish orange clay attached, scattered pyrite cubes, scattered interbedded white clay.
20-25	Mudstone, dark grey, finely textured, well compacted, scattered finely divided mica, scattered orange silt adhering to chips, rare to scattered white clay inclusions.
25-30	Silty mudstone, medium grey, coarsely textured, well compacted, scattered very finely divided mica.
30-35	Silty mudstone, as 25-30 above, scattered inclusions of orange and white speckled clay.
35- 0	Mudstone, medium grey and white and orange, coarsely textured, well compacted.
40-45	Mudstone, medium dark grey, as 25-30 above.
45-50	Mudstone, as 25-30 above, scattered orange and white silty clay inclusions.
50-55	Silt, light grey, medium textured, moderately compacted, scattered fine mica, rare minute pyrite? specks.
55-60	Silt, light grey, white, minor orange, yellow and brown, finely textured to med um tex ured, well compacted.
60-65	Silt, li gnt grey as 55-60 above.
65-70	Silt, as 55-60 above except also dark gray.

All samples : S/35/35/0

069

BORE No.27

Q47/1 73-939

692124

DEPTY	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light yellow and brown, medium textured, moderately compacted, scattered clear fine to medium quartz grains
5-10	Silt, medium grey, coarsely textured, loosely compacted, scattered finely divided mica, rare clear quartz grains.
10-15	Silt, as 5-10 above.
15-20	Silt, as 5-10 above, moderately compacted.
20-25	Silt, as 5-10 above.
25-30	Silt, medium to dark grey, medium textured, loosely compacted, scattered carbonaceous material, occasional gypsum, occasional coarsely grained clear quartz.
30-35	Silty clay, medium grey, medium textured, loosely compacted.
35-40	Silt, medium grey, coarsely textured, loosely compacted, scattered very finely divided mica.
40-45	Silt, as 35-40 above.
45-50	Silt, as 35-40 above.
50-55	Silt, as 35-40 above.
55-60	Clay, light grey, medium textured, loosely compacted.
60-65	Silt, as 30-35 above.
65-70	Silt, as 30-35 above.
70-75	Silt, as 30-35 above.
75-80	Silt, as 30-35 above.
80-85	Silt, light grey, scattered orange and yellow silt or clay (staining?) scattered very finely divided mica, finely textured, moderately compacted.
85-90	Mudstone, medium steel grey, scattered yellow and orange clay and silt, scattered finely divided mica, medium textured, moderately compacted.

All samples : S/35/35/0

Q47|1 73-939

1070

BORE No.28

692125

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, medium grey, minor light orange, scattered white clay grains, scattered fine grains of clear quartz, coarsely textured, well compacted.
5-10	Silt, as 0-5 above.
10-15	Sand, medium brown, grey and clear, finely grained, sub-angular, poorly sorted quartz, very dirty, common light brown, yellow and orange clayey and silty interstitial material, scattered multicoloured angular clay inclusions, scattered clear and grey sub-rounded quartz pebbles up to 1/8" diameter, moderately compacted.
15-20	Sand, yellowish brown, clear, minor pink and white, medium to coarsely grained, sub-angular, poorly sorted quartz, dirty, scattered light brown and yellow silty interstitial material, loosely compacted.
20-25	Sand, as 15-20 above, except fine to medium grained and common brown silty interstitial material.
25-30	Silty sand, sand as 20-25 above, scattered yellow, brown and white silt and clay stringers.
30-35	Pebbly, silty clay, dark to medium yellow and light grey silty clay stringers, common coarse grains to pebbles up to 1/8" diameter of sub-rounded, clear, smokey grey, and light brown quartz, loosely to moderately compacted, coarsely textured.
35-40	Pebbly, silty clay, as 30-35, except some very dark brown clay stringers, quartz grains less common.
40-45	Pebbly silty clay, as 30-35 above.
45-50	Pebbly, silty clay, as 30-35 above, but medium brown clay is predominant.
50-55	Pebbly, silty clay, as 45-50 above.
55-60	Pebbly, silty clay, as 45-50 above, rare igneous and brown and red shale grains.
60-65	Pebbly, silty clay, as 45-50 above with pebbles up to 1/4" diameter.
65-70	Pebbly, silty clay, as 45-50 above, with pebbles up to 1/4" diameter.
70-75	Pebbly, silty clay, as 35-40 above.
75-80	Pebbly, silty clay, as 60-65 above, common large carbonaceus wood fragments.
80-85	Carbonaceous wood fragments and pebbly silty sand, as above, scattered multicoloured clay fragments.
85-90	Pebbly silty clay, medium brown, minor white, orange and light grey, common coarsely grained to pebbles up to 1/8" diameter, moderately compacted, coarsely textured.

071

BORE no.28

692126

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Clay, white, light grey, medium brown stringers, scattered quartz and dark grey clay grain inclusions, medium textured, moderately compacted.
95-100	Silty clay, medium brown, scattered clear and brown coarse grains of quartz, common carbonaceous wood fragments, coarsely textured, loosely compacted.
100-105	Silty clay, medium brown, white, minor yellow and orange, occasional coarse grains of quartz, scattered carbonaceous wood fragments.
105-110	Silty clay, as 100-105 above, scattered inclusions of multicoloured clay.
110-115	Silty clay, as 100-105 above.

All samples : S/35/35/0

BORE No.29

Q47(1 73-939
692127

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, yellowish brown, grey and red stringers, occasional light brown, orangish brown, fine to coarsely grained quartz, medium textured, moderately compacted.
5-10	Clayey silt, medium brown, white and yellow stringers, scattered blue grey finely textured plastic clay stringers, common coarse grains to pebbles up to 1/8" diameter of light brown and orange quartz, scattered brown ferruginous nodules, coarsely textured, well compacted.
10-15	Silty clay, yellowish brown, scattered light brown pink and orange, fine to coarse grains of quartz and pebbles up to 1/8" diameter, scattered white clay stringers, scattered reddish brown ferruginous pebbles, coarsely textured, moderately compacted.
15-20	Silty clay, as 10-15 above.
20-25	Silt, light yellowish brown, and white stringers, scattered clear, pink and light brown, fine to very coarse grains of quartz, scattered inclusions of white silicified silt?, coarsely textured, loosely compacted, rare reddish brown siderite clay or ferruginous nodules.
25-30	Silt, as 20-25 above.
30-35	Silt, as 20-25 above, but finely textured and more clayey, and moderately compacted.
35-40	Clay, medium brown, yellowish brown, minor orange and white, rare carbonaceous wood fragments, scattered light brown and pink fine to coarse grains of quartz, scattered white siliceous silty material, medium textured, moderately compacted.
40-45	Clay. medium brown, minor yellow, orange and white inclusions, scattered dark brown clay pebbles, occasional yellow and orange silt stringers, finely textured, well compacted plastic
45-50	Clay, medium and dark grey stringers, occasional yellow and orange silt lenses, with coarse grains of orange and brown quartz, finely textured, well compacted, plastic.
50-55	Clay, dark brown, minor yellowish brown and rare white lenses, coarsely textured, well compacted.
55-60	Clay, as 50-55 above.
60-65	Clay, as 40-45 above.
65-70	Clay, dark brown, medium textured, well compacted.
70-75	Clay, medium greyish brown, medium textured, well compacted.
75-80	Clay, medium grey, occasional yellow stringers, medium textured, well compacted.
80-85	Clay, dark brown, rare mica, medium textured, well compacted.
85-90	Clay, as 80-85 above, occasional white-yellow and orange minute silt inclusions.

BORE No.29

Q47/1 73-939
692128

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, yellowish brown, grey and red stringers, occasional light brown, orangish brown, fine to coarsely grained quartz, medium textured, moderately compacted.
5-10	Clayey silt, medium brown, white and yellow stringers, scattered blue grey finely textured plastic clay stringers, common coarse grains to pebbles up to 1/8" diameter of light brown and orange quartz, scattered brown ferruginous nodules, coarsely textured, well compacted.
10-15	Silty clay, yellowish brown, scattered light brown pink and orange, fine to coarse grains of quartz and pebbles up to 1/8" diameter, scattered white clay stringers, scattered reddish brown ferruginous pebbles, coarsely textured, moderately compacted.
15-20	Silty clay, as 10-15 above.
20-25	Silt, light yellowish brown, and white stringers, scattered clear, pink and light brown, fine to very coarse grains of quartz, scattered inclusions of white silicified silt?, coarsely textured, loosely compacted, rare reddish brown siderite clay or ferruginous nodules.
25-30	Silt, as 20-25 above.
30-35	Silt, as 20-25 above, but finely textured and more clayey, and moderately compacted.
35-40	Clay, medium brown, yellowish brown, minor orange and white, rare carbonaceous wood fragments, scattered light brown and pink fine to coarse grains of quartz, scattered white siliceous silty material, medium textured, moderately compacted.
40-45	Clay. medium brown, minor yellow, orange and white inclusions, scattered dark brown clay pebbles, occasional yellow and orange silt stringers, finely textured, well compacted plastic
45-50	Clay, medium and dark grey stringers, occasional yellow amd orange silt lenses, with coarse grains of orange and brown quartz, finely textured, well compacted, plastic.
50-55	Clay, dark brown, minor yellowish brown and rare white lenses, coarsely textured, well compacted.
55-60	Clay, as 50-55 above.
60-65	Clay, as 40-45 above.
65-70	Clay, dark brown, medium textured, well compacted.
70-75	Clay, medium greyish brown, medium textured, well compacted.
75-80	Clay, medium grey, occasional yellow stringers, medium textured, well compacted.
80-85	Clay, dark brown, rare mica, medium textured, well compacted.
85-90	Clay, as 80-85 above, occasional white-yellow and orange minute silt inclusions.

074

BORE No.29

692129

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Clay, as 85-90 above.
95-100	Clay, as 80-85 above.
100-105	Clay, as 80-85 above.
105-110	Clay, dark brown, medium brown stringers of finely textured silt, scattered inclusions and blebs of white, yellow and orange silt, scattered finely divided mica, scattered carbonaceous, medium textured, well compacted.
110-115	Clay, dark brown, scattered inclusions and lenses of orange brown clay, rare finely divided mica, medium textured, well compacted.
115-120	Clay, as 105-110 above.
120-125	Clay, as 105-110 above, scattered medium brown clay, occasional pink and orange red stained coarse grained quartz and pebbles up to 1/16" diameter, medium textured, well compacted.
125-130	Clay, medium and dark brown clay, fine to medium textured, well compacted.
130-135	Missing.
135-140	Clay, as 125-130 above, rare orange clay inclusions.
140-145	Clay, dark and medium brown, scattered yellow, orange and white inclusions, scattered black carbonaceous mud? scattered clear glassy quartz fragments (cavings?) finely textured, moderately compacted.
145-150	Clay, dark brown, rare white to light brown, coarsely textured, silt lenses, finely textured, moderately compacted.
150-155	Clay, as 145-150 above, silt stringers, scattered to common.
155-160	Interbedded clay and silt as 150-155 above. Silt tends to grade into a finely grained sand in places.
160-165	Interbedded clay and silt, as 155-160 above, except scattered yellowish brown clay stringers.
165-170	Sandy silt, light grey, scattered finely to medium clear quartz grains set in a white silty and clayey matrix, coarsely textured, loosely compacted.
170-175	Sandy silt, as above, except quartz fine to coarsely grained, scattered very finely grained dark mineral? grains.
175-180	Sandy silt, as 170-175 above.
180-185	Sandy silt, as 170-175 above, plus scattered pebbles of white quartz up to 1/2" diameter, and grey quartzite, occasional carbonaceous wood fragments.
185-190	Clay, mottled medium brown, orange, yellow and white, scattered clear medium to coarsely grained quartz, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
190-195	Clay, dark brown, yellow, orangish brown stringers, scattered yellow and orange clay inclusions, scattered inclusions of black carbonaceous mud, finely textured, moderately compacted.
195-200	Clay, medium brown, yellow, orange stringers, scattered lenses of sandy silt as 170-175 above.
200-205	Sand, clear, light brown, minor orange (staining?), medium to coarsely grained, sub-angular, poorly sorted quartz, common medium brown and reddish brown ferruginous and clay nodules, very dirty, common light brown, yellow and orange clayey and silty interstitial material, scattered yellow, orange and white clay inclusions and lenses, loosely to moderately compacted.
205-210	Pebbly clay, light brown, yellow, orange, minor white, scattered to common coarsely grained to pebbly, sub-angular, poorly sorted quartz, set in clay matrix, medium textured, moderately compacted.
210-215	Clay, mottled, light, medium and dark brown, yellow, orange, grey and white, scattered inclusions and lenses of white sandy silt, medium to coarsely textured, moderately compacted.
215-220	Clay, as 210-215 above, scattered coarse grains and pebbles of quartz.
220-225	Clay, light brown, medium dark brown, scattered white yellow and orange stringers and lenses, scattered quartz pebbles up to 1/16" diameter, medium textured, moderately compacted.
225-230	Clay, as 220-225 above, occasional carbonaceous wood fragments.
230-235	Clay, medium brown, orange, minor white, rare scattered pebbles of grey smokey quartz up to 1/8" diameter, medium textured, moderately compacted.
235-240	Clay Interbedded, medium brown, orange and white, minor pink stringers and lenses, scattered carbonaceous wood fragments, occasional white to light grey silt lenses, fine to medium textured, moderately compacted.
240-245	Clay, as 235-240 above, scattered clear and grey quartz and quartzite pebbles up to 1/8" diameter.
245-250	Clay, as 240-245 above.
250-255	Clay, as 240-245 above, scattered white brittle quartzitic? material.
255-260	Clay, light to medium brown, medium grey, orange and white lenses and stringers, scattered clear quartz, and dark grey quartzite and indurated clay pebbles up to 1/8" diameter, fine to coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
260-265	Clay, as 255-260 above, scattered carbonaceous wood fragments, occasional reddish brown ferruginous coated black soft mineral with metallic lustre.
265-270	Clay, as 255-260 except no dark grey quartzite.
270-275	Clay, as 255-260 above.
275-280	Clay, light grey to white, light to medium brown, occasional orange stringers and lenses, scattered carbonaceous wood fragments, scattered clear quartz and light grey quartzite pebbles up to 1/8" diameter, coarsely textured, moderately compacted.
280-285	Clay, as 275-280 above.
285-290	Clay, as 275-280 above.
290-295	Interbedded clay and silt, light brown, light grey, orange, minor white stringers, scattered reddish fine grains of quartz sand stringers, scattered clear and light brown quartz pebbles up to 1/16" diameter, fine to medium textured, moderately compacted, scattered carbonaceous wood fragments.
295-300	Interbedded clay and silt, as 285-290 above, but no red sand stringers.
300-310	Clay and silt, as 295-300 above.
310-315	Clay, light brown, orange, minor white stringers and lenses, scattered carbonaceous wood fragments, scattered stringers of soft black mineral with metallic lustre capped with reddish brown ferruginous shale, rare reddish brown nodules, medium to coarsely textured, moderately compacted.
315-320	Clay, white, light grey, scattered light brown, rare orange stringers and lenses, rare mica, scattered clear, sub-angular quartz pebbles up to 1/8" diameter,,coarsely textured, moderately compacted.
320-325	Clay, as 315-320 above, scattered snow white sugary texture, silt lenses.
325-330	Clay, light and medium brown, scattered white and orange stringers and lenses, scattered ferruginous black shale? layers, rare coarse grains of quartz, coarsely textured, moderately compacted, scattered carbonaceous wood fragments.
330-335	Clay, as 325-330 above. Quartz pebbles up to 1/2" diameter, scattered red very finely grained sand lenses.
335-340	Clay, light medium brown, yellow, orange and white stringers and lenses, scattered carbonaceous wood fragments and shiny coal fragments, coarsely textured, moderately compacted.
340-345	Clay, white, light brown, orange, yellow, dark brown & mottled, occasional medium brown nodules, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
345-350	Clay, as 340-345 above, occasional quartz pebbles.
350-355	Clay, mottled as 340-345 above.
355-360	Clay, medium brown, light brown, white, yellow, orange, mottled, common carbonaceous wood fragments and material, scattered pebbles up to 1/8" diameter of clear and smokey quartz, coarsely textured, moderately compacted.
365-370	Clay, as 360-365 above.
370-375	Silty clay, white to light grey, scattered stringers of yellow clay, coarsely textured, moderately compacted.
375-380	Silty clay, as 370-375 above, occasional medium brown clay nodules.
380-385	Clay, white to light grey, occasional light pink tinge, rare to scattered yellowish brown clay inclusions, medium textured, loosely to moderately compacted.
385-390	Clay, as 380-385 above, occasional ferruginous black shale platey fragments, rare red and brown silt lenses.
390-395	Clay, as 380-385 above, scattered carbonaceous wood fragments.
395-400	Clay, as 385-390 above.
400-410	Clay, as 385-390 above, scattered medium brown and orange clay lenses.
410-415	Clay, mottled medium brown, white, rare orange stringers, scattered carbonaceous wood fragments and material.

/ All samples : S/35/35/0

Q47/1 73-939

BORE # 30

692133

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, mottled, dark grey, orange brown, orange, yellow and red, fine-very coarse grained quartz, some of which is stained red, scattered ferruginous nodules, fine to medium textured, moderately compacted. (Whole sample is iron stained red to orange.)
5-10	Clay, as 0-5 above.
10-15	Clay, mottled yellowish-brown, medium brown and grey scattered reddish orange, scattered reddish purple ironstone fragments, finely textured, waxy appearance, moderately compacted.
15-20	Clay, mottled red, yellow, white, pink, scattered reddish brown and purple hard ferruginous silt pebbles up to 1/4" in diameter, finely textured, moderately compacted.
20-25	Clay as 15-20 above.
25-30	Clay as 15-20 above.
30-35	Clay, light orange-brown, yellow-brown, light bluish grey and red stringers, lenses and inclusions, finely textured, waxy, moderately compacted.
35-40	Clay, light yellow-brown, finely textured, waxy, moderately compacted.
40-45	Clay, medium yellow-brown, rare yellow and red clay inclusions, scattered carbonaceous wood fragments, finely textured, waxy, moderately compacted.
45-50	Clay, dark brown, scattered yellow stringers, finely textured, soapy to the touch, moderately compacted.
50- 55	Clay, dark chocolate brown, rare yellow and red clay inclusions and streaks, finely textured, soapy, moderately compacted.
55-60	Clay, dark brown, medium orange brown stringers, scattered yellowish-orange, and bluish grey inclusions, finely textured, plastic, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, as 45-50 above.
70-75	Clay, as 45-50 above.
75-80	Clay, as 45-50 above.
80-85	Clay, as 45-50 above.
85-90	Clay, dark brown, rare yellow streaks and patches, finely textured, soapy, plastic, moderately compacted.
90-95	Clay, as 85-90 above.
95-100	Clay, as 85-90 above.
100-105	Clay, as 85-90 above.
105-110	Clay, as 85-90 above.
110-115	Clay, as 85-90 above.
115-120	Clay, dark brown, scattered white stringers, fine to medium textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
120-125	Clay, medium brown and white interbeds, medium textured, moderately compacted.
125-130	Sandy Clay, as 115-120 above.
130-135	Silty Clay, medium brown, scattered white stringers, scattered orange patches, scattered light greenish white silt lenses, scattered siderite nodule clusters, scattered pebbles and fragments of quartz and quartzite and dolerite, coarsely textured, moderately compacted.
135-140	Silty Clay, as 130-135 above, common coarse grains and pebbles up to 1/16" diameter of quartz, quartzite and dolerite.
140-145	Clay, medium brown and grey, dark brown stringers, scattered pink, orange and yellow streaks, scattered reddish brown siderite nodule clusters, scattered pebbles and fragments of quartz and quartzite, fine-medium textured, moderately compacted.
145-150	Clay, medium brown, scattered apricot and white clay and silt stringers, scattered reddish brown sideritic clay fragments, scattered pebbles and fragments of quartz, quartzite and dolerite, fine-medium textured, moderately compacted.
150-155	Clay, medium grey, brown, orange, pink, yellow stringers, streaks and inclusions, (in some places has a mottled appearance) scattered reddish brown sideritic clay fragments, scattered fragments and pebbles of quartz and quartzite, medium-coarsely textured, moderately compacted.
155-160	Clay, as 150-155 above, becoming silty.
160-165	Clay, mottled, red, brown, white, pink, minor yellow, scattered reddish brown siderite nodule clusters.
165-170	Clay, as 160-165 above, mainly pink.
170-175	Clay, as 160-165 above.
175-180	Clay, as 160-165 above.
180-185	Clay, as 160-165 above, scattered light greenish grey, finely grained clayey sand stringers, scattered fragments of greenish grey volcanic rock? and dolerite and quartzite.
185-190	Clay, mottled, apricot, medium brown, and white, scattered greenish, grey clay fragments, rare sideritic clay inclusions, scattered dolerite fragments, fine-coarsely textured, moderately compacted.
190-195	Clay, as 185-190 above, (whole sample has pink appearance - may be due to alteration.)
195-200	Clay, as 190-195 above.
200-205	Clay, as 190-195 above.
205-210	Clay, as 190-195 above.
210-215	Clay, as 190-195 above, common ferruginous and sideritic clay nodules.
215-220	Clay, as 210-215 above.

All samples are - S 32/32/0

080

BORE # 31

Q47/1 73-939

692135

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, yellow, orange, medium brown stringers rare white streaks, scattered red blebs, scattered limonitic nodules, occasional very coarse grains of quartz, medium textured, moderately compacted.
5-10	Clay, as 0-5 above.
10-15	Clay, as 0-5 above.
15-20	Clay, medium greyish-brown, rare yellow inclusions scattered reddish brown sideritic clay inclusions and nodules, medium textured, moderately compacted.
20-25	Clay, medium to dark brown, scattered yellowish-orange clay inclusions, medium textured, moderately compacted.
25-30	Clay, as 20-25 above.
30-35	Clay, as 15-20 above.
35-40	Clay, as 15-20 above.
40-45	Clay, as 20-25 above, scattered carbonaceous matter fragments.
45-50	Clay, medium to dark brown, rare yellowish-orange clay inclusions, finely textured, moderately compacted.
50-55	Clay, medium to dark brown, rare yellow and orange clay inclusions, finely textured, moderately compacted.
55-60	Clay, medium brown, scattered reddish brown sideritic clay inclusions, scattered carbonaceous wood fragments, and coal, fine to medium textured, moderately compacted.
60-65	Clay, white, scattered medium to dark brown stringers, rare carbonaceous wood fragments, medium textured, moderately compacted.
65-70	Sandy Silt, very light grey to white, scattered medium brown stringers, scattered fine to coarse grains of quartz, scattered very fine grained nodules of siderite, coarsely textured, moderately compacted.
70-75	Sandy Silt, as 65-70 above.
75-80	Silt, white, common interbeds of medium grey, brown and light fawn clay, scattered very finely divided orange specks (siderite?) coarsely textured, moderately compacted.
80-85	Clay, medium greyish-brown, scattered carbonaceous wood fragments, rare pebbles of quartz up to 1/16" diameter, rare carbonaceous wood fragments, medium textured, moderately compacted.
85-90	Sandy Silt, light to medium grey, scattered clay lenses, common fine to coarse grained quartz, common siderite nodule clusters and grains, scattered carbonaceous blebs and fragments, coarsely textured, moderately compacted.
90-95	Sandy Silt, light greenish-grey, light brown and orange, common clean coarse grains of quartz and reddish-orange siderite nodules, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
95-100	Calcareous Silt, light brown, green, grey, minor orange, scattered carbonaceous wood fragments, scattered round pebbles of quartz and quartzite up to 1/8" diameter, scattered orange siderite grains and nodules, scattered calcite veins, scattered fragments of dolerite, coarsely textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Calcareous Silt, as 95-100 but becoming sandier.
105-110	Sandy Clay, and silt, light brown, white, orange, common fine grained quartz and reddish brown siderite grains, scattered quartzite and quartz pebbles up to 1/8" in diameter, scattered carbonaceous-wood fragments, rare slightly calcareous silt patches, coarsely textured, moderately compacted.
110-115	Sandy Clay and Silt, as 105-110 above.
115-120	Sandy Silt, as 105-110 above, slightly calcareous.
120-125	Clay, light to medium grey and brown, rare to scattered carbonaceous wood fragments, scattered pebbles of quartz and quartzite up to 1/8" diameter, scattered reddish-brown sideritic clay inclusions and nodule clusters, fine to medium textured, moderately compacted.
125-130	Clay, medion brown and white, scattered reddish brown siderite nodules, rare carbonaceous wood fragments, scattered angular fragments of quartz and quartzite, coarsely textured, moderately compacted.
130-135	Clay, as 125-130 above.
135-140	Clay, as 125-130 above, scattered carbonaceous wood fragments.
140-145	Silt, light greenish grey speckled orange, scattered medium brown stringers, scattered magnetitic shale fragments, scattered carbonaceous-wood fragments, medium to coarse textured, moderately compacted.
145-150	Clay, light and medium brown and grey, scattered white, yellow and orange streaks and inclusions, scattered orange, sideritic clay inclusions and siderite nodules, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
150-155	Clay, light brown, grey and yellow, streaks and stringers, scattered fine grained siderite grains, rare to scattered pebbles of quartz and quartzite up to 1/16" diameter, fine to medium textured, moderately compacted.
155-160	Clay, light brown with fawn and yellow streaks scattered orange fine grained siderite grains, medium textured, moderately compacted.
160-165	Clay, medium to dark brown, light fawn, rare white and orange, stringers, lenses and inclusions, scattered light grey silt lenses, scattered orange siderite grain clusters, medium textured, moderately compacted.
165-170	Clay, 155-160 above.
170-175	Clay, as 155-160 above, but coarsely textured.
175-180	Clay, as 155-160 above, scattered reddish brown sideritic clay inclusions.
189-185	Silt, light brown with white and orange patches, scattered carbonaceous blebs, and wood fragments, scattered fine to medium quartz grains, medium to coarse textured, moderately compacted.
185-190	Clay, light to medium grey, scattered carbonaceous wood fragments, scattered fine grained quartz, scattered reddish brown sideritic clay fragments, fine to medium textured, moderately compacted.
190-195	Clay, as 185-190 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
195-200	Sandy Silt, light to medium brown and grey with scattered orange patches, common fine to medium grained, sub-angular, clean quartz grains, coarsely textured, moderately compacted.
200-205	Sandy Silt, as 195-200 above, scattered fragments of reddish brown sideritic clay.
205-210	Sandy Silt, as 200-205 above, scattered limonitic nodules.
210-215	Sandy Silt, medium brown, scattered orange patches, common fine to coarse quartz grains, rare mica, rare to scattered carbonaceous wood fragments, scattered red brown sideritic clay inclusions, medium textured, moderately compacted.
215-220	Clay, medium brown, scattered orange patches, scattered medium brown sideritic clay inclusions, rare medium grained quartz, coarsely textured, moderately compacted.
220-225	Clay, as 215-220 above.
225-230	Silt, light to medium brown, scattered orange patches, scattered fine to medium quartz grains, rare angular quartz fragments, scattered carbonaceous wood fragments, medium textured, moderately compacted.
230-235	Silt, as 225-230 above, but sandier.
235-240	Silt, light grey, brown and orange, scattered reddish brown sideritic clay fragments, scattered carbonaceous wood fragment, coarsely textured, moderately compacted.
240-245	Sandy Silt, light to medium grey, fine to medium grained quartz, scattered, carbonaceous wood fragments, coarsely textured, loosely to moderately compacted.
245-250	Silty Sand, clear, light brown, fine to coarse grained, sub-angular, poorly sorted quartz, extremely dirty, common light brown and grey silty and white clayey interstitial material, common orange siderite grains and clusters, scattered carbonaceous wood fragments, moderately to loosely compacted.
250-255	Sandy Silt, as 245-250 above.
255-260	Silt, medium brown, scattered white lenses and rare orange inclusions, scattered medium grained quartz, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
260-265	Silt, as 255-260 above.
265-270	Silt, as 255-260 above, becoming very sandy.
270-275	Sandy Silt, as 240-245 above.
275-280	Sandy Silt, light grey and brown, common fine to very coarse grained quartz, scattered carbonaceous wood fragments, scattered ferruginous shale plates, scattered angular quartz fragments, coarsely textured, grades into silty sand in places, loosely to moderately compacted.
280-285	Sandy Silt, as 275-280 above.
285-290	Sandy Silt, as 275-280 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
290-295	Sandy Silt, light brown, scattered orange patches, becoming sandy in places, scattered carbonaceous wood fragments, occasional siderite grains, coarsely textured, moderately to loosely compacted.
295-200	Sandy Silt, as 290-295 above.
300-305	Sandy Silt, as 290-295 above, scattered white and yellow clay streaks.
305-310	Silt, medium brown, scattered orange, yellow and white streaks, scattered fine grained siderite nodules, finely textured, moderately compacted.
310-315	Silt, as 305-310 above, scattered medium to coarse quartz grains, occasional magnetic shale, fragments.
315-320	Clay, mottled medium grey, brown, white, rare yellow, occasional magnetitic shale fragments, coarsely textured, moderately compacted.
320-325	Clay, as 315-320 above, magnetitic shale is interbedded in this sample.
325-330	Clay, light, medium, dark brown and grey, scattered yellow and orange inclusions and lenses, scattered carbonaceous wood fragments, occasional ferruginous rounded nodule, scattered reddish brown sideritic clay fragments, fine to medium textured, moderately compacted.
330-335	Clay, light to medium brown, scattered yellow and orange inclusions, scattered carbonaceous wood fragments, scattered sub-rounded glassy, very coarse grains of quartz, scattered reddish brown sideritic clay fragments and siderite nodule clusters, fine to medium textured, moderately compacted.
335-340	Clay, as 330-335 above.
340-345	Clay, as 330-335 above.
345-350	Clay, as 330-335 above.
350-355	Clay, as 330-335 above, occasional reddish-yellow limonitic coated magnetitic shale fragment.
355-360	Clay, as 350-355 above.
360-365	Clay, as 350-355 above.
365-370	Clay, medium brown, rare orange and yellow specks, rare carbonaceous wood fragments, occasional limonite coated siderite fragment, occasional sub-angular, coarse grained quartz, fine-medium textured, moderately compacted.
370-375	Clay, mottled, light grey and brown, yellow, orange and rare green and pink, scattered reddish brown sideritic clay inclusions and nodules scattered very coarse grained quartz, fine-medium textured, moderately compacted.
375-380	Clay, as 370-375 except common limonite coated siderite nodules up to 1/16" diameter.
380-385	Clay, mottled white, pink, orange, yellow and medium to dark grey, common, rounded, nodules of sideritic clay (the whole sample has a pinkish appearance.)
385-390	Clay, as 380-385 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
390-395	Clay, as 380-385 above, occasional nodule is coated with yellowish-orange limonite, scattered plates of limonite stained magnetitic shale, scattered reddish-brown sideritic clay inclusions and fragments, scattered sub-angular to angular pebbles of quartzite.
395-400	Clay, as 390-395 above.
400-405	Clay, as 390-395 above.
405-410	Clay, as 390-395 above, common orange-brown siderite nodule clusters.
410-415	Clay, as 390-395 above.
415-420	Clay, light brown, common orange brown, siderite nodule clusters and grains, fine to medium textured, moderately compacted.
420-425	Clay, as 415-420 above, scattered white and yellow clay lenses.

All samples are S 32/32/0

Q47|1 73|939
692140

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Clay, orange brown, minor yellow and white and red common coarse grains of yellow, orange and brown quartz, scattered and ferruginous nodules, coarsely textured, moderately compacted.
5-10	Sandy Clay, as 0-5 above, scattered angular fragments of quartzite.
10-15	Pebbly Clay, light and medium orange brown, orange, yellow and white stringers, common pebbles of brown quartz up to 1/8" in diameter, scattered rounded, red ferruginous nodules up to 1/8" in diameter, coarsely textured, moderately compacted.
15-20	Clay, light yellowish-brown with scattered yellow and white stringers and streaks, scattered reddish-brown sideritic clay inclusions some of which are coated with limonite, finely textured, moderately compacted.
20-25	Clay, as 15-20 above, scattered very coarse grains of quartz with occasional limonitic staining on a few grains.
25-30	Clay, light grey, dark purplish grey, orange, yellow and light fawn stringers and streaks, fine to medium textured, moderately compacted.
30-35	Clay, medium to dark grey scattered yellowish-orange stringers, rare to scattered reddish brown sideritic clay patches, medium textured, moderately compacted.
35-40	Clay, dark greyish-brown, rare yellowish-orange streaks and inclusions, medium textured, moderately compacted.
40-45	Clay, as 35-40 above.
45-50	Clay, as 30-35 above.
50-55	Clay, as 35-40 above.
55-60	Clay, as 35-40 above, occasional limonitic stained sideritic clay inclusion.
60-65	Clay, as 55-60 above.
65-70	Clay, as 55-60 above.
70-75	Clay, as 55-60 above, scattered fibrous translucent brittle yellowish-orange mineral? (does not react with hydrochloric acid)
75-80	Clay, medium grey, rare yellow inclusions, rare reddish-orange patches, scattered reddish brown sideritic clay inclusions, fine to medium textured, moderately compacted.
80-85	Clay, as 75-80 above, scattered white clay stringers.
85-90	Clay, medium grey, common, coarsely textured, white and orange silt interbeds, medium textured, moderately compacted.
90-95	Sandy Silt, medium grey and brown, common fine to very coarse grains of quartz, scattered orange glassy mineral grains, rare carbonaceous wood fragments, coarsely textured, moderately compacted.
95-100	Sandy Silt, as 90-95 above, scattered stringers of clay as 85-90 above, scattered pebbles of quartz and quartzite up to ½" diameter.

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DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Clay, light to medium orange, brown and yellow, rare white inclusions, scattered carbonaceous wood fragments, scattered pebbles of quartz, quartzite and dolerite up to ¼" diameter, finely textured, moderately compacted.
105-110	Sandy Silt, medium brown, scattered white lenses and stringers, rare yellow clay inclusions, medium to very coarse grained quartz and pebbles of quartzite, scattered reddish-brown sideritic clay inclusions and fragments, coarsely textured, moderately compacted.
110-115	Sandy Silt, as 105-110 above, scattered carbonaceous wood fragments.
115-120	Sandy Silt, as 105-110 above.
120-125	Clayey Sand, clear, light brown, light green, rare pink, fine to coarsely grained, sub-angular to sub-rounded, poorly sorted, quartz, extremely dirty, common light brown and white clayey interstitial material, scattered carbonaceous wood fragments, rare yellow staining on a few grains, loosely to moderately compacted.
125-130	Sandy Silt, as 105-110, common clay matrix.

All samples are - S 34/34/0

087

BORE # 33

94/1 73-939

692142

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light yellow-brown, yellow and minor orange stringers, scattered ferruginous rounded nodules, scattered coarse grains of brown sub-rounded quartz, scattered angular fragments of quartzite, medium textured, moderately compacted.
5-10	Clay, yellow, medium brown, dark brown, orange stringers, streaks and inclusions, scattered reddish-brown sideritic clay inclusions fixely textured, moderately compacted.
10-15	Clay, medium orange-brown, scattered orange and yellow lenses and inclusions, finely textured, moderately compacted.
15-20	Clay, medium brown and orange brown, finely textured, plastic moderately compacted.
20-25	Clay, as 15-20 above, scattered rounded hard clay pebbles up to 1/4" diameter.
25-30	Clay, orange-brown, scattered pebbles of quartz up to 1/16" in diameter, medium-coarsely textured, moderately compacted.
30-35	Clay, as 25-30 above.
35-40	Clay, as 25-30 above.
40-45	Sandy Silt, orange-brown, common coarse grained and pebbles of clear and orange-brown quartz, scattered ferruginous round nodules, medium-coarse textured, moderately compacted.
45-50	Clay, brange-brown, common reddish black ferruginous rounded nodules up to 1/8" diameter, scattered fragment of quartz and quartzite, medium textured, moderately compacted.
50-55	Silt, orange-brown, common finely grained, sub-angular, clear and light brown and orange quartz, coarsely textured, moderately compacted.
55-60	Silt, as 50-55 above, except sandier.
60-65	Sandy Clay, orange-brown, common, light brown, orange, yellow and clear, fine-coarse grained, sub-angular, poorly sorted, quartz, set in silty clay matrix, coarsely textured, moderately compacted.

All samples are S 34/34/0

088

Q47/1 73-939

692143

BORE No.34

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy silt, medium brown, white, minor yellow and orange, scattered orange, red, yellow and white clay angular inclusions and pebbles, scattered medium to coarse grains of quartz, rare steel grey clay fragments, rare to scattered carbonaceous wood fragments and blebs, very coarsely textured, loosely compacted.
5-10	Clay, medium dark brown, white, orange, yellow, mottled, scattered sub-rounded, dark brown clay nodules, rare black and white igneous fragments.
10-15	Clay, brecciated multicoloured clay, some white clay laths, coarsely textured, loosely compacted.
15-20	Silty clay, multicoloured grains of clay and minor quartz, scattered brown carbonaceous wood fragments.
20-25	Silt, medium brown, clear and light brown quartz and clay fragments, scattered carbonaceous stringers and brown wood fragments, coarsely textured, loosely compacted.
25-30	Clay, dark brown to black, fine to medium textured, moderately compacted (plastic).
30-35	Clay, as 25-30 above.
35-40	Clay, as 25-30 above, occasional thin stringer of orange clay.
40-45	Clay, as 25-30 above.
45-50	Clay, as 25-30 above, minor orange clay specks.
50-55	Clay, as 25-30 above.
55-60	Clay, medium brown, minor light grey stringers, occasional yellow fragments and fine grains of quartz, medium textured, moderately compacted.
60-65	Clay, as 55-60 above (no quartz)
65-70	Clay, as 35-40 above.
70-75	Clay, as 25-30 above.
75-80	Clay, dark brown and yellowish orange, finely textured, moderately compacted.
80-85	Clay, as 25-30 above.
85-90	Clay, as 75-80 above.
90-95	Clay, dark brown, light yellowish brown, red stringers, rare to scattered minute carbonaceous blebs, finely textured, moderately compacted (plastic)
95-100	Clay, medium yellow and brown, minor pink stringers, finely textured, moderately compacted. (plastic)
100-105	Clay, as 95-100 above, with pink and red stringers more abundant.

089

BORE No.34

692144

DEPTH	STRATIGRAPHIC DESCRIPTION
105-110	Clay, as 100-105 above, occasional pebbly inclusions of hard dark brown clay.
110-115	Clay, as 100-105 above.
115-120	Clay, red, rare white clay inclusions, rare fine grains of quartz, finely textured, moderately compacted (plastic).
120-125	Clay, light brown, waxy, scattered yellow and pink clay inclusions, scattered dark brown clay, sub-rounded grains, finely textured, well compacted.
125-130	Clay, as 120-125 above, scattered pebbles of up to 1/2" diameter of hard indurated brown silt and clay and quartz, medium textured, well compacted.
130-135	Sandy silt, medium to light grey and brown, clear, silt size and very fine grains of quartz set in white and light grey silt matrix, occasional yellow and white clay inclusions, scattered carbonaceous wood fragments, friable, loosely compacted, coarsely textured.
135-140	Pebbly clay, rounded, coarse grains and pebbles up to 1/8" diameter of grey sub-rounded clay set in a medium brown coarsely textured clay matrix, rare sub-rounded coarse grains of quartz.
140-145	Clay, medium brown, coarsely textured to silty, loosely compacted, scattered yellow and white clay inclusions, occasional carbonaceous wood fragments, scattered sub-rounded quartz.
145-150	Clay, as 140-145 above.
150-155	Clay, medium to light brown, minor white, orange and pink, scattered black and white igneous fragments, occasional quartz grains, coarsely textured, loosely to moderately compacted.
155-160	Clay, as 150-155 above.
160-165	Silty clay, light grey, coarsely textured, loosely to moderately compacted, scattered minute carbonaceous fragments, scattered clear fine grains of quartz.
165-170	Clay, light grey, light brown, minor white, scattered black igneous fragments, scattered orange and pink clay inclusions, moderately compacted, coarsely textured, sometimes silty.
170-175	Clay, medium brown and grey, as above 165-170.
175-180	Silty clay, medium brown and grey, minor orange, white inclusions, scattered carbonaceous wood fragments and soft carbonaceous mud?
180-185	Silty clay, medium brown and grey, minor orange, yellow and red, scattered carbonaceous wood fragments, occasional black igneous fragments, scattered inclusions of multicoloured clay pebbles, rare fine grains of quartz, coarsely textured, loosely to moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
185-190	Clay, medium brown, yellow, white, orange and red, scattered angular fragments of igneous rock, rare rounded fine grains of grey and brown clay, medium textured, moderately compacted.
190-195	Clay, as 185-190 above.
195-200	Clay, as 185-190 above.
200-210	Clay, as 185-190 above.
210-215	Clay, as 185-190 above.
215-220	Clay, as 185-190 above.
220-225	Clay, as 185-190 above.
225-230	Clay, as 185-190 above.
230-235	Clay, as 185-190 above but common fragments of clay and igneous rock
235-240	Silty clay, medium brown, minor yellow, white and orange, scattered very fine to fine grains of quartz.
240-245	Clay, as 185 - 190 above.
245-250	Clay, as 185-190 above.

All samples : S/35/35/0

091

BORE No.35

Q47/1 73-939
692146

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sand, brown, clear, minor grey, medium grained, sub-angular, poorly sorted quartz, scattered coarse grains to pebbles 1/8" diameter, scattered red and brown clay, minor white clay, dirty, scattered brown, yellow and white silty and clayey interstitial material, friable, loosely compacted.
5-10	Clay, mottled, multicoloured, medium to coarsely textured, moderately compacted, scattered fine grains of quartz.
10-15	Clay, mottled red, white, minor brown, and yellow clay, medium textured, moderately compacted.
15-20	Clay, mottled brown, red, orange, yellow and white, scattered multicoloured clay fragment inclusions and minor clear quartz grains, medium textured, moderately compacted.
20-25	Clay, multicoloured stringers, finely textured, moderately compacted.
25-30	Clay, yellow, light to dark brown stringers, finely textured, moderately compacted.
30-35	Clay, dark brown and yellow stringers, medium textured, moderately compacted.
35-40	Clay, yellow and minor brown and grey stringers, medium textured, moderately compacted.
40-45	Clay, mottled? (or breccia) yellow, brown and white, medium textured, moderately compacted, rare carbonaceous specks.
45-50	Clay, as 40-45 above.
50-55	Clay, yellow, orange, brown and white stringers, coarsely textured moderately compacted.
55-60	Missing.
60-65	Sandy silt, coarsely grained, sub-angular, poorly sorted, white, brown, grey and red silt and minor quartz set in a brown, orange, silty and clayey matrix.
65-70	Pebbly clay, pebbles of multicoloured clay up to 1/8" set in white, brown and orange clay matrix, moderately to loosely compacted, coarsely textured.
70-75	Silty sand, clear, brown, coarsely grained, Angular to sub-angular, poorly sorted quarts, igneous rock and clay, very dirty, common brown silty and clayey interstitial material, loosely to moderately compacted.
75-80	Silty sand, as 70-75 above.
80-85	Silty sand, as 70-75 above.

All samples : S/35/35/0

092

Q47/1 73-939

BORE # 36

692147

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty Clay, orange-brown, coarsely textured, moderately compacted.
5-10	Sand, orange, brown, yellow, fine to medium grained, sub-andular, poorly sorted, quartz, clean, scattered brown silty interstitial material, 100% of grains have either yellow or orange coloured staining, loosely compacted.
10-15	Clay, orange to yellow brown, scattered carbonaceous-wood fragments, scattered red clay patches, medium to coarsely textured, moderately compacted.
15-20	Clay, yellowish-brown, occasional medium grained brown quartz, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
20-25	Clay, yellowish brown as 15-20 above.
25-30	Clay, as 15-20 above.
30-35	Clay, orange-brown, medium brown, orange scattered red and yellow ferruginous nodules, occasional very coarse grains of brown quartz, scattered lenses of quartz, coarsely textured, moderately compacted.
35-40	Clay, medium orange-brown and orange inclusions, finely grained, waxy, appearance, moderately compacted.
40-45	Clay, dark brown rare orange inclusions, finely textured, plastic, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, dark brown, scattered yellow, orange and white stringers, plastic, moderately compacted.
55-60	Clay, medium to dark brown, scattered to rare white yellow and orange inclusions, streaks and specks, finely textured, moderately compacted.
60-65	Clay, as 55-60 above, rare reddish-brown sideritic clay inclusions.
65-70	Clay, as 55-60 above.
70-75	Clay, as 55-60 above, only dark brown.
75-80	Clay, dark brown, scattered yellow, orange and white lenses and inclusions, scattered light grey stringers, occasional limonitic nodules, finely textured, moderately compacted.
80-85	Clay, dark brown, rare light orange-brown inclusions, and streaks, finely textured, moderately compacted.
85-90	Clay as 75-80 above, occasional angular brown quartz fragments.
90-130	missing.
130-135	Clay, light brown, scattered orange and minor white lenses and inclusions, scattered carbonaceous matter and wood fragments, scattered dark brown sideritic clay inclusions, fine to medium textured, moderately compacted.
135-140	Clay, as 130-135 above.
140-145	Clay, as 130-135 above, only medium to dark brown.

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093

BORE # 36

692148

DEPTH	STRATIGRAPHIC DESCRIPTION
145-150	Sandy Clay, light and medium brown, orange, minor red and white inclusions, common carbonaceous matter and wood fragments, common fine to coarsely grained quartz, coarsely textured, moderately to loosely compacted.
150-155	Clay, medium grey and brown, scattered orange, yellow and white lenses and inclusions, occasional reddish-brown sideritic clay inclusions, finely textured, moderately compacted.
155-160	Sand, clear, medium to coarse grained, sub-rounded, poorly sorted, quartz, dirty common light brown and orange clayey interstitial material, scattered stringers of orange, white and dark brown clay, scattered angular quartz fragments, scattered carbonaceous matter, loosely to moderately compacted.
160-165	Clay, light, medium and dark brown, scattered orange stringers, scattered lenses of white silt and sand, scattered carbonaceous matter and wood fragments, scattered pebbles of quartz and quartzite up to 1/16" in diameter, medium textured, moderately compacted.
165-170	Sandy Clay, light, medium, dark brown, orange, yellow and white stringers, scattered carbonaceous wood fragments, scattered silt lenses, scattered fine to medium quartz grains, coarsely textured, moderately compacted.
170-175	Clay, medium to dark brown and grey, white, orange scattered carbonaceous wood fragments, scattered reddish brown sideritic clay inclusions, scattered pebbles of quartz up to 1/8" in diameter, medium textured, moderately compacted.
175-180	Clay, mottled light, medium grey and brown, white, yellow, orange, scattered carbonaceous matter, and wood fragments, scattered very coarse grains of quartz, coarsely textured, loosely to moderately compacted.
180-185	Clay, as 175-180 above.
185-190	Clay, as 175-180 above, becoming sandy.
190-195	Sand, clear, scattered orange and rare yellow, fine to coarse grained, sub-angular, poorly sorted, quartz, dirty, common light brown, yellow, orange and rare red silty interstitial material, scattered carbonaceous wood fragments, scattered reddish brown minute sideritic grains, about 20% of grains have reddish, orange and rare yellow staining.
195-200	Sandy Silt, medium brown, common fine to coarse grains of quartz, scattered carbonaceous-wood fragments, scattered reddish-brown sideritic clay inclusions, coarsely textured, moderately compacted.
200-205	Clay, medium grey and brown, orange and yellow, rare white stringers, lenses and inclusions, scattered carbonaceous-wood fragments, scattered medium grained quartz, scattered reddish-brown sideritic clay inclusions, medium to coarsely textured, moderately compacted.
205-210	Clay, as 200-205 above.
210-215	Clay, as 200-205 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
215-220	Clay, light and medium grey, medium brown, orange and minor white stringers, and inclusions, common carbonaceous wood fragments and matter, fine to coarsely textured, moderately compacted.
220-225	Clay, medium grey and brown, dark brown, scattered yellow and orange stringers, lenses and inclusions, common carbonaceous matter and wood fragments, medium textured, moderately compacted.
225-230	Clay, as 200-205 above.
230-235	Clay, medium grey, orange, white, light and medium brown stringers, lenses and inclusions, scattered carbonaceous wood fragments, scattered fine grained quartz, some of which is orange stained, medium to coarsely textured, moderately compacted.
235-240	Clay, as 230-235 above.
240-245	Clay, as 230-235 above.
245-250	Clay, as 230-235 above.
250-255	Clay, as 230-235 above.
255-260	Clay, as 30-235 above, rare limonitic coated siderite nodules.
260-265	Clay, medium and dark brown, scattered orange and orange-brown lenses and stringers, scattered carbonaceous wood fragments, scattered medium-coarse grains of quartz, scattered reddish-brown siderite nodule clusters, coarsely textured, moderately compacted.
265-270	Clay, as 260-265 above, scattered yellow limonitic coated sideritic clay pebbles, scattered quartz pebbles up to 1/8" diameter.
270-275	Clay, mottled medium to dark brown, yellow, orange, white, scattered carbonaceous wood fragments, becomes silty in places, rare, rounded, quartz and quartzite pebbles up to 1/16" diameter, occasional orange staining, medium to coarsely textured, moderately compacted.
275-280	Clay, mottled, white, pink, bright orange, yellow, dark brown and minor grey, scattered carbonaceous wood fragments, scattered very coarse grains of quartz, occasional ferruginous silt, medium to coarsely textured, moderately compacted. (Whole sample has a pinkish tinge and may be due to alteration).
280-285	Clay, as 275-280 above, scattered reddish brown sideritic clay fragments, and siderite nodules.
285-290	Clay, as 280-285 above.
290-295	Clay, as 280-285 above.
295-300	Clay, as 280-285 above.
300-305	Clay, as 280-285 above.
305-310	Clay, as 280-285 above.
310-315	Clay, as 280-285 above, carbonaceous wood fragments, more common.
315-320	Clay, as 280-285 above.
320-325	Clay, as 280-285 above, becoming silty.
325-330	Clay, as 280-285 above, rare siderite nodules.
330-335	Clay, as 280-285 above, rare siderite nodules.
335-340	Silty Clay, medium brown, scattered orange and white clay stringers, lenses and inclusions, scattered white silt lenses, scattered carbonaceous wood fragments, scattered finely grained quartz, rare reddish-brown siderite nodule clusters, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
340-345	Silty Clay, as 335-340 above, scattered patches of mottled orange and white clay.
345-350	Silty Clay, as 335-340 above, only mottled.
350-355	Silty Clay, as 345-350 above.
355-360	Silty Clay, as 345-350 above.
360-365	Silty Clay, mottled medium-dark brown, orange, white, yellow, scattered carbonaceous wood fragments, scattered reddish brown siderite nodule clusters, rare pebbles and angular fragments of quartz up to 1/16" diameter, coarsely textured, grades into silt in places, moderately compacted.
365-370	Silty Clay, as 360-365 above.
370-375	Silty Clay, as 360-365 above.
375-380	Silty Clay, as 360-365 above, slightly calcareous.
380-385	Silty Clay, as 360-365 above.
385-390	Clay, mottled medium, dark, greyish brown, orange, white and rare yellow, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
390-395	Clay, as 385-390 above.
395-400	Clay, as 385-390 above, rare carbonaceous wood fragments.
400-405	Clay, as 395-400 above.
405-410	Clay, as 385-390 above, common medium to very coarse grained and pebbles of rounded quartz, rare reddish brown siderite nodule clusters.
410-415	Clay, as 405-410 above.
415-420	Clay, as 405-410 above, common orange clay.
420-425	Clay, medium grey and brown stringers, scattered orange inclusions, scattered carbonaceous wood fragments, scattered medium brown sideritic clay fragments, and siderite nodule clusters, scattered medium to coarse grains of loose quartz, medium textured, moderately compacted.
425-430	Clay, mottled medium to dark grey, white, pink, orange, rare yellow, scattered carbonaceous wood fragments, scattered reddish brown sideritic silt fragments and siderite nodule clusters, scattered brown, sub-rounded, fine coarsely grained quartz, with occasional orange straining, medium to coarsely textured, moderately compacted.
430-435	Clay, as 425-430 above.
435-440	Clay, as 425-430 above, predominantly orange coloured.
440-445	Clay, as 425-430 above, predominately white coloured.
445-450	Clay, as 425-430 above.
450-455	Clay, mottled pink, orange, yellow, medium and dark brown, white, scattered carbonaceous wood fragments, rare to scattered sideritic clay inclusions and nodules, rare coarse grains of brown quartz, medium to finely textured, moderately compacted.
455-460	Clay, as 425-430 above.
460-465	Clay, as 425-430 above.
465-470	Clay, as 425-430 above.
470-475	Clay, as 425-430 above.

.../5

036

BORE # 36

692151

DEPTH	STRATIGRAPHIC DESCRIPTION
475-480	Clay, mottled yellow, yellowish brown, medium brown, white and rare pink, scattered reddish brown sideritic clay fragments, and siderite nodule clusters, occasional reddish-black round ferruginous nodule, rare carbonaceous wood fragments, fine to medium textured, moderately compacted.
480-485	Clay, mottled predominantly white with pink tinge and scattered yellow and dark brown patches, rare carbonaceous-wood fragments, scattered reddish-brown sideritic clay inclusions and siderite nodule clusters, fine to medium textured, moderately compacted.
485-490	Clay, as 480-485 above.
490-495	Clay, as 480-485 above, scattered orange clay inclusions.
495-500	Clay, as 480-485 above.

All samples are S 33/33/0

097

Q47/1 73-939

BORE # 37

692152

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, mottled orange, yellow, grey, white, dark brown, scattered angular fragments of reddish-brown hard ferruginous clay, finely to medium textured, moderately compacted.
5-10	Clay, as 0-5 above.
10-15	Clay, orange and light bluish grey, rare carbonaceous blebs, finely textured, plastic, moderately compacted.
15-20	Clay, orange, rare light bluish grey streaks, rare angular, reddish brown, sideritic clay fragments, finely textured, plastic, moderately compacted.
20-25	Clay, orange-brown, rare carbonaceous specks, finely textured, plastic, moderately compacted.
25-30	Clay, as 20-25 above.
30-35	Clay, as 20-25 above.
35-40	Clay, orange brown and medium brown, rare to scattered carbonaceous specks, finely textured, plastic, moderately compacted.
40-45	Clay, dark chocolate brown, scattered orange stringers, finely textured, plastic, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, medium to dark brown, scattered orange-brown and medium tan stringers, medium textured, moderately compacted.
55-60	Clay, as 50-55 above.
60-65	Clay, as 50-55 above, rare white inclusions.
65-70	Clay, as 50-55 above.
70-75	Clay, dark chocolate brown, finely textured, plastic, moderately compacted.
75-80	Clay, as 70-75 above.
80-85	Clay, as 70-75 above, scattered orange streaks and inclusions.
85-90	Clay, as 70-75 above.
90-95	Clay, as 70-75 above.
95-100	Clay, as 70-75 above.
100-105	Clay, as 80-85 above.
105-110	Clay, as 70-75 above.
110-115	Clay, as 80-85 above.
115-120	Clay, as 70-75 above.
120-125	Clay, as 70-75 above.
125-130	Clay, as 80-85 above.
130-135	Clay, as 80-85 above.
135-140	Clay, as 80-85 above.

098

BORE # 37

692153

DEPTH	STRATIGRAPHIC DESCRIPTION
140-145	Clay, as 70-75 above.
145-150	Clay, as 70-75 above.
150-155	Clay, as 80-85 above.
155-160	Clay, as 80-85 above,
160-165	Clay, medium to dark brown, scattered inclusions of mottled red and white clay and occasional yellowish-orange clay inclusions, rare carbonaceous wood fragments, finely to medium textured, moderately compacted.
165-170	Clay, medium orange-brown, medium to coarsely textured, moderately compacted.
170-175	Clay, medium orange-brown and dark brown, medium to coarsely textured, moderately compacted.
175-180	Clay, dark brown, finely textured, moderately compacted.
180-185	Clay, dark brown, scattered orange brown, light fawn and orange inclusions, finely to medium textured, moderately compacted.
185-190	Clay, dark brown, scattered orange streaks and inclusions, finely textured, moderately compacted.
190-195	Clay, medium to dark brown, scattered orange and white clay inclusions, medium to coarsely textured, moderately compacted.
195-200	Clay, medium brown with orange-brown and orange tinges, medium textured, moderately compacted.
200-205	Clay, very light grey, scattered orange patches, scattered sideritic nodules and finely grained quartz, scattered reddish brown sideritic clay fragments and inclusions, medium textured, moderately compacted.
205-210	Clay, light to medium grey, scattered orange patches, scattered red-brown sideritic clay inclusions, scattered medium grained quartz, medium textured, moderately compacted.
210-215	Clay, as 205-210 above, rare ferruginous nodules.
215-220	Silt, white, scattered light and medium grey clay.stringers, coarsely textured, moderately compacted.
220-225	Silt, light to medium brown, scattered medium grey and white clay stringers, scattered carbonaceous-wood fragments, medium textured, moderately compacted.
225-230	Silt, as 220-225 above, only finely textured.
230-235	Silt, as 225-230 above.
235-240	Silt, as 225-230 above, scattered reddish-orange sideritic clay fragments.
240-245	Clay, light to medium grey, coarsely textured, moderately compacted.
245-250	Clay, light to medium grey, coarsely textured, moderately compacted.
250-255	Clay, as 240-245 above, scattered orange-brown siderite nodule clusters.

099 BORE # 37 692154

DEPTH	STRATIGRAPHIC DESCRIPTION
255-260	Clay, as 240-245 above, scattered patches of reddish-orange and yellow, scattered medium brown clay stringers.
260-265	Clay, mottled white, fawn, brown, grey orange and yellow scattered yellow limonitic shale fragments, scattered carbonaceous wood fragments, scattered red-brown siderite nodule clusters, scattered coarse grains of quartz, medium to coarsely textured, moderately compacted.
265-270	Sandy Clay, white, medium brown, with patches of orange, common fine to coarse grains of quartz, scattered carbonaceous wood fragments, scattered medium grey clay stringers, coarsely textured, moderately compacted.
270-275	Clay, medium brown, scattered white silt stringers, scattered bone coloured clay inclusions, scattered bright coal fragments, rare mica, medium to coarsely textured, moderately compacted.
275-280	Silt, medium brown, orange-brown, white stringers, rare coarsely grained quartz, coarsely textured, moderately compacted.
280-285	Clay, dark brown, orange, scattered white silt lenses, coarsely textured, moderately compacted.
285-290	Clay, as 250-255 above.
290-295	Clay, as 250-255 above.
295-300	Clay, dark, medium and orange-brown, scattered white to very light fawn stringers, finely textured, plastic, moderately compacted.
300-305	Clay, dark brown, medium brown, orange stringers, scattered white silt lenses, medium textured, moderately compacted.
305-310	Clay, as 290-295 above.
310-315	Clay, dark brown, rare orange inclusions, scattered white silt stringers, scattered very coarse grains of quartz, medium textured, moderately compacted.
315-320	Clay, as 310-315 above, except medium brown.
320-325	Clay, medium brown, minor orange and white streaks and patches, scattered white silt lenses, scattered carbonaceous wood fragments, scattered medium to coarse grains of quartz, medium textured, moderately compacted.
325-330	Clay, dark brown, orange-brown, scattered orange streaks and inclusions, scattered yellow and orange silt lenses, occasional very coarse grains of quartz, finely textured, moderately compacted. (Orange clay patches look ferruginous in places.)
330-335	Clay, as 325-330 above.
335-340	Clay, medium brown, scattered orange (ferruginous?) tinges and patches, rare to scattered carbonaceous wood fragments, medium textured, moderately compacted.
340-345	Clay, as 335-340 above, scattered white silt lenses.
345-350	Clay, mediumto dark brown, scattered orange streaks and stringers, scattered carbonaceous wood fragments, medium textured, moderately compacted.
350-355	Clay, as 345-350 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
355-360	Clay, as 345-350 above.
360-365	Silt, white and medium brown interbeds, scattered reddish brown sideritic clay inclusions, scattered orange clay inclusions, and streaks, rare medium grains of quartz, rare silvery grey metallic rosette (pyrite?), medium to coarsely textured, moderately compacted.
365-370	Silt, as 350-365 above, pyrite?
370-375	Silt, as 360-365 above.
375-380	Silt, as 360-365 above, scattered carbonaceous wood fragments, rare mica.
380-385	Silt, as 375-380 above.
385-390	Clay, medium brown, white, scattered orange lenses, scattered carbonaceous wood fragments and matter, rare to scattered reddish-brown silt stringers, medium to coarsely textured, moderately compacted.
390-395	Clay, as 385-390 above, scattered very coarse grains of quartz, scattered reddish-brown sideritic clay inclusions.
395-400	Sand, clear fine to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, common, light brown silty and occasional orange and yellow ferruginous? interstitial patches, rare carbonaceous-wood fragments, common reddish-orange sideritic nodules clusters and grains, scattered white and brown clay inclusions, moderately compacted.
400-405	Silt, white, light brown, scattered orange patches, scattered sandy lenses, scattered carbonaceous-wood fragments, scattered reddish brown ferruginous clay fragments, coarsely textured, moderately compacted.
405-410	Silt, as 400-405 above.
410-415	Silt, as 400-405 above, fine to medium textured.
415-420	Silt, as 400-405 above, scattered to common medium to dark brown, white, orange clay stringers.
420-425	Silt, as 415-420 above.
425-430	Silt, as 415-420 above.
430-435	Silt, as 400-405 above.
435-440	Silt, white, light brown, light grey, scattered yellow and orange, purple specks and patches, scattered lenses, medium grey clay, scattered carbonaceous wood fragments, medium textured, moderately compacted.
440-445	Silt, as 435-440 above.
445-450	Silt, as 435-440 above.
450-455	Silt, light brown, scattered white and rare orange patches, becomes sandy in some patches, scattered fine to coarse grains of quartz, coarsely textured, moderately compacted.
455-460	Silt, as 450-455 above, scattered carbonaceous-wood fragments.

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DEPTH	STRATIGRAPHIC DESCRIPTION
460-465	Sandy Silt, light brown, common fine to coarse grains of quartz, scattered orange brown sideritic clay inclusions, scattered carbonaceous wood fragments, finely textured, moderately compacted.
465-470	Silt, as 460-465 but less sandy.
470-475	Clay, light fawn, scattered medium brown and yellow clay lenses, scattered reddish brown sideritic clay inclusions and nodule aggregates, scattered medium grains of quartz, coarsely textured, moderately compacted.
475-480	Clay, very light grey and brown, white clay stringers, scattered orange inclusions, scattered reddish brown sideritic clay inclusions and nodules up to 1/8" diameter, medium to coarsely textured, moderately compacted.
480-485	Clay, light and medium grey, scattered yellow and orange lenses, scattered reddish brown sideritic clay inclusions, scattered medium to coarse grains of quartz, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
485-490	Clay, as 480-485 above.

All samples are - S 33/33/0

Q47/1 73-939

BORE # 38

692157

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Silt, white to light fawn, scattered to common light brown, medium grained quartz and scattered rounded brown and orange quartz pebbles, up to 1/8" in diameter, coarsely textured, moderately to loosely compacted.
5-10	Clay, medium to dark orange-brown, scattered very coarsely grained brown quartz, coarsely textured, moderately compacted.
10-15	Clay, medium orange-brown and grey, finely textured, moderately compacted.
15-20	Clay, as 10-15 above.
20-25	Clay, as 10-15 above, predominantly orange brown.
25-30	Clay, orange-brown, finely textured, plastic, moderately compacted.
30-35	Clay, orange-brown and rare grey, finely textured, plastic, moderately compacted.
35-40	Clay, as 25-30 above.
40-45	Clay, dark chocolate brown and orange-brown stringers, finely textured, plastic, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, as 40-45 above.
55-60	Clay, dark chocolate brown, finely textured, plastic, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, as 40-45 above.
70-75	Clay, as 55-60 above.
75-80	Clay, as 40-45 above.
80-85	Clay, as 55-60 above.
85-90	Clay, as 55-60 above.
90-95	Clay, as 55-60 above.
95-100	Clay, as 55-60 above.
100-105	Clay, as 55-60 above.
105-110	Clay, dark brown rare orange, finely textured, plastic, moderately compacted.
110-115	Clay, as 40-45 above.
115-120	Clay, as 105-110 above.
120-125	Clay, dark chocolate brown, scattered very light grey stringers, and orange inclusions, scattered yellow and orange ferruginous nodules.
125-130	Clay, as 105-110 above.
130-135	Clay, as 120-125 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
135-140	Clay, as 105-110 above.
140-145	Clay, as 120-125 above.
145-150	Silt, very light grey, scattered dark brown and grey clay stringers, medium to coarsely textured, moderately compacted.
150-155	Silt, as 145-150 above, common dark brown to black clay stringers.
155-160	Clay, dark brown, light grey, common silt stringers, (as 145-150 above), finely textured, moderately compacted.
160-165	Clay, as 155-160 above.
165-170	Clay, as 40-50 above.
170-175	Silt, light to medium brown, grey and scattered orange, common carbonaceous wood fragments, coarsely textured, moderately compacted.
175-180	Silty Sand, clear, light brown, medium to coarse grained, sub-angular, poorly sorted, quartz, extremely dirty, common light brown silty and white and grey clayey interstitial material, scattered stringers of medium grey, plastic clay, scattered inclusions of carbonaceous matter, moderately to loosely compacted.
180-185	Silty Sand, as 175-180 above, common carbonaceous wood fragments, scattered orange ferruginous? interstitial material.
185-190	Clay, medium and dark grey and brown, scattered white common carbonaceous wood fragments, occasional orange ferruginous? staining, medium to coarsely textured, moderately compacted.
190-195	Clay, as 185-190 above.
195-200	Sand, clear, light brown, medium to coarsely grained, sub-angular, medium sorted, quartz, very dirty, common grey clayey and light brown silty interstitial material, scattered carbonaceous inclusions and wood fragments, loosely to moderately compacted.
200-205	Sand, as 195-200 above, rare orange staining on a few grains.
205-210	Carbonaceous Clay, black, scattered medium brown clay stringers, common carbonaceous wood fragments, coarsely textured, moderately compacted.
210-215	Carbonaceous Mud, as 210-215 above.
215-220	Carbonaceous Mud, black medium textured, moderately compacted.
220-225	Carbonaceous Mud, as 215-220 above.
225-230	Carbonaceous Mud, as 215-220 above.
230-235	Carbonaceous Mud, black, rare very light fawn clay stringers, medium textured, moderately compacted.
235-240	Carbonaceous Mud, as 230-235 above.
240-245	Carbonaceous Mud, as 230-235 above, rare orange clay inclusions.
245-250	Carbonaceous Mud, as 230-235 above.
250-255	Carbonaceous Mud, as 230-235 above.
255-260	Carbonaceous Mud, as 240-245 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
260-265	Carbonaceous Mud, as 230-235 above.
265-270	Carbonaceous Mud, as 230-235 above.
270-275	Carbonaceous Mud, as 240-245 above.
275-280	Carbonaceous Mud, as 240-245 above.
280-285	Carbonaceous Mud, scattered to rare lenses and inclusions of very light fawn and orange clay, medium textured, moderately compacted.
285-290	Clay, medium brown and grey, scattered orange stringers and white inclusions, scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments, medium to coarsely textured, moderately compacted.
290-295	Clay, as 285-290 above.
295-300	Clay, as 285-290 above.
300-305	Carbonaceous Mud, as 240-245 above,
305-310	Clay, medium to dark brown, scattered orange stringers, common black carbonaceous mud stringers, scattered pebbles of quartz and quartzite up to 1/8" in diameter, medium textured, moderately compacted.
310-315	Clay, as 305-310 above.
315-320	Clay, as 305-310 above.
320-325	Clay, as 305-310 above.
325-330	Clay, as 305-310 above.
330-335	Clay, as 305-310 above.
335-340	Clay, as 305-310 above.
340-345	Clay, dark brown, grey, rare light brown and orange stringers, scattered white inclusions, common carbonaceous matter and wood fragments, scattered orange-brown sideritic clay fragments, medium textured, moderately compacted.
345-350	Clay, as 340-345 above.
350-355	Clay, as 340-345 above.
355-360	Clay, dark brown to black, common, carbonaceous mud, and wood fragments, medium textured, moderately compacted.
360-365	Clay, as 355-360 above, rare orange inclusion.
365-370	Clay, as 360-365 above.
370-375	Clay, as 360-365 above.
375-380	Clay, as 360-365 above.
380-385	Clay, as 360-365 above.
385-390	Clay, medium to dark brown, stringers, scattered light fawn and orange silt stringers, scattered common carbonaceous mud and wood fragments, fine-medium textured, moderately compacted.

BORE # 38

692160

DEPTH	STRATIGRAPHIC DESCRIPTION
390-395	Silt, medium brown and orange brown scattered to common carbonaceous-wood fragments, scattered medium brown clay stringers, medium to coarse textured, moderately compacted.
395-400	Clay, medium, dark brown, orange stringers, common carbonaceous-wood fragments and matter.
400-405	Clay, medium and dark grey and brown stringers, rare white inclusions scattered orange clay fragments, scattered to common carbonaceous wood fragments and matter, medium textured, moderately compacted.
405-410	Clay, as 400-405 above.
410-415	Clay, medium greyish-brown, scattered carbonaceous wood fragments, scattered reddish brown siderite clay inclusions, coarsely textured, moderately compacted.
415-420	Clay, as 400-405 above.
420-425	Carbonaceous Mud, black, common dark brown to black clay, common carbonaceous wood fragments, medium textured, moderately compacted.
425-430	Carbonaceous Mud, as 420-425 above, scattered yellow inclusions and orange streaks.
430-435	Clay, as 400-405 above.
435-440	Clay, light grey, common carbonaceous mud stringers, common carbonaceous wood fragments, scattered reddish brown sideritic clay inclusions, medium textured, moderately compacted.
440-445	Clay, medium brown, scattered orange inclusion, scattered carbonaceous wood fragments and matter, finely to medium textured, moderately compacted.
445-450	Clay, as 440-445 above.
450-455	Clay, as 440-445 above.
455-460	Clay, as 440-445 above.
460-465	Clay, dark brown, rare to scattered orange and fawn inclusions, common carbonaceous wood fragments and matter, medium textured, moderately compacted.
465-470	Clay, as 460-465 above.
470-475	Clay, as 460-465 above.
475-480	Clay, medium brown to grey, scattered light fawn stringers, scattered carbonaceous wood fragments, medium textured, moderately compacted.
480-485	Clay, medium grey, scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay inclusions, medium textured, moderately compacted.

All samples are S 33/33/0

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Q47/1 73-939

BORE # 39

692161

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, orange, light greenish grey interbeds, fine to medium textured, plastic, moderately compacted.
5-10	Clay, as 0-5 above.
10-15	Clay, as 0-5 above.
15-20	Clay, as 0-5 above.
20-25	Clay, orange-brown and bone interbeds, finely textured, plastic, moderately compacted.
25-30	Clay, as 20-25 above.
30-35	Clay, dark chocolate brown to black and orange stringers, finely textured, moderately compacted.
35-40	Clay, as 30-35 above.
40-45	Clay, as 30-35 above.
45-50	Clay, light fawn, orange, scattered dark brown stringers, finely textured, moderately compacted.
50-55	Clay, as 30-35 above.
55-60	Clay, as 30-35 above.
60-65	Clay, dark chocolate brown, rare light fawn stringers, finely textured, plastic, moderately compacted.
65-70	Clay, as 60-65 above.
70-75	Clay, as 60-65 above.
75-80	Clay, as 60-65 above.
80-85	Clay, dark brown, scattered orange and light fawn inclusions, finely textured, moderately compacted.
85-90	Clay, medium to dark orange and reddish brown, medium to coarsely textured, well compacted.
90-95	Clay, dark brown, scattered yellow, orange and light fawn inclusions, fine to medium textured, moderately compacted.
95-100	Clay, as 85-90 above, scattered orange stringers.
100-105	Clay, as 80-85 above.
105-110	Clay, dark brown, rare orange inclusions, finely textured, plastic, moderately compacted.
110-115	Clay, as 105-110 above.
115-120	Clay, as 105-110 above.
120-125	Clay, as 105-110 above.
125-130	Silt, light grey, common, medium to dark brown clay stringers, scattered carbonaceous-wood fragments, medium textured, moderately compacted.

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BORE # 39

692162

DEPTH	STRATIGRAPHIC DESCRIPTION
130-135	Clay, dark brown, medium brown, orange stringers, common carbonaceous mud, scattered silty lenses, medium to coarsely textured, moderately compacted.
135-140	Silt, as 125-130 above.
140-145	Clay, medium and dark grey and brown, and scattered light fawn stringers, scattered carbonaceous-wood fragments, rare white clay fragments, finely to medium textured, moderately compacted.

All samples are S 33/33/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Silt, very light fawn, common clear, minor light brown and rare orange, finely grained, poorly sorted quartz, set in silty matrix, scattered light brown and pink quartz pebbles up to 1/16" diameter, most of finely grained quartz have slight orange staining, coarsely textured, moderately compacted.
5-10	Sandy Silt, as 0-5 above, becoming more clayey, scattered fragments of quartzite.
10-15	Clay, mottled yellow, orange-brown, white, silty in places, scattered quartzite and quartz pebbles and fragments up to ¼" diameter, scattered limonitic clay nodules, rare carbonaceous wood fragments, medium to coarsely textured, moderately compacted
15-20	Clay, as 10-15 above.
20-25	Clay, light fawn, scattered light bluish-grey stringers, scattered dark brown ferruginous fragments, rare small carbonaceous wood fragments, rare medium grained light brown quartz, finely textured, moderately compacted.
25-30	Clay, medium orange-brown, rare bluish-grey and medium brown stringers, rare small carbonaceous wood fragments, plastic, finely textured, moderately compacted.
30-35	Clay, very dark brown and light medium tan to orange stringers, plastic, finely textured, moderately compacted.
35-40	Clay, medium orange-brown, scattered bluish-grey and dark brown stringers, plastic, finely textured, moderately compacted.
40-45	Clay, as 30-35 above, medium textured.
45-50	Clay, as 40-45 above.
50-55	Clay, as 30-35 above, scattered yellowish-orange silt stringers.
55-60	Clay, dark chocolate brown, scattered white, light fawn, orange lenses and inclusions, scattered white silt patches, scattered carbonaceous mud inclusions, medium textured, moderately compacted.
60-65	Clay, medium grey, common interbeds and stringers of medium fawn and white and rare orange clay, finely to medium textured, moderately compacted.
65-70	Clay, as 60-65 above.
70-75	Clay, as 60-65 above, white and orange stringers becoming more abundant.
75-80	Clay, medium grey, one rounded pebble up to ¾" diameter of white hard clay, finely textured, moderately compacted.
80-85	Clay, white scattered medium grey stringers, coarsely textured, moderately to well compacted.
85-90	Clay, as 80-85 above.
90-95	Clay, as 60-65 above, rare angular fragments of light brown to pink quartzite, rare reddish-brown ferruginous clay.
95-100	Clay, medium grey, scattered white and rare orange and brown stringers, rare carbonaceous blebs, scattered orange-brown limonitic clay inclusions and reddish-brown ferruginous clay inclusions, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Clay, as 95-100 above.
105-110	Clay, as 95-100 above, scattered very coarse grained quartz.
110-115	Clay, as 95-100 above, becoming silty.
115-120	Silt, medium grey, rare yellow clay inclusions, finely textured, moderately compacted.
120-125	Clay, medium grey, rare white silty stringers, scattered orange clay inclusions, scattered coarse grained clear and orange quartz, coarsely textured, moderately compacted.
125-130	Clay, as 120-125 above, occasional carbonaceous wood fragments, rare reddish-brown sideritic clay inclusions.
130-135	Clay, as 125-130 above.
135-140	Clay, as 125-130 above, becoming sandy, scattered coarse grained clear quartz and angular fragments of quartz and quartzite.
140-145	Clay, as 135-140 above.
145-150	Clay, as 135-140 above, rare red-brown siderite nodule clusters, rare limonitic stained quartzite fragment.
150-155	Sandy Clay, white to light grey, scattered medium grey clay stringers, common fine grained quartz, rare small carbonaceous wood fragments, coarsely textured, moderately compacted.
155-160	Sandy Silt, white, light grey, medium grey stringers, common fine grained quartz, scattered small carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
160-165	Sandy Silt, as 155-160 above, occasional angular quartzite fragments.
165-170	Clay, medium brownish-grey, scattered grey silt stringers, occasional angular sideritic clay inclusions, rare dark grey quartz pebbles up to 1/16" diameter, scattered fine to medium grained quartz, rare limonitic stained patches, coarsely textured, moderately compacted.
170-175	Clay, as 165-170 above.
175-180	Sandy Silt, light to medium brownish-grey, scattered patches of yellow and orange limonitic stained clay, scattered carbonaceous wood fragments, common fine to very coarse grained quartz and pebbles of quartz, quartzite and black chert up to ¼" diameter, some of the quartz grains have slight orange staining, medium to coarsely textured, moderately compacted.
180-185	Sandy Silt, but less sandy and finely to medium textured.
185-190	Sandy Silt, as 180-185 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
190-195	Sandy Silt, medium brownish-grey, scattered orange and orange-brown patches, common fine coarse grained quartz, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
195-200	Sandy Silt, as 190-195 above.
200-205	Silty Sand, light brownish-grey, clear, fine grained, sub-angular, medium sorted, quartz, very dirty common light brownish-grey silty interstitial material, scattered minute carbonaceous fragments, scattered silt stringers, moderately compacted.
205-210	Sandy Silt, as 175-180 above.
210-215	Silt, as 190-195 above, occasional rounded pebble of white quartz up to ¼" diameter.
215-220	Sandy Silt, medium brownish-grey, scattered orange-brown and orange and rare white patches, scattered stringers of medium grey clay, common clear very fine to very coarse grained quartz, occasional rounded clear quartz pebble up to 1/8" diameter and angular quartzite fragments, scattered carbonaceous matter and wood fragments, rare reddish-brown sideritic clay fragments, scattered yellowish-orange clay inclusions, coarsely textured, moderately compacted.
220-225	Sandy Silt, as 215-220 above, but light brown and common carbonaceous wood fragments.
225-230	Sandy Silt, as 215-220 above.
230-235	Sandy Silt, as 215-220 above, scattered limonitic coated red ferruginous nodules.
235-240	Sandy Silt, light grey, white and medium grey, scattered light and medium grey clay stringers, scattered yellow clay inclusions, scattered orange and rusty brown ferruginous patches, rare carbonaceous wood fragments, scattered rounded pebbles of white, clear and yellow quartz up to 1/8" diameter, coarsely textured, moderately compacted.
240-245	Sandy Silt, as 235-240 above, common bright yellowish-orange clay lenses, occasional quartzite fragments.
245-250	Sandy Silt, as 240-245 above.
250-255	Sandy Silt, medium brownish-grey, scattered orange ferruginous patches, common fine to medium clear quartz, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
255-260	Sandy Silt, as 250-255 above, scattered light brown and white stringers.
260-265	Sandy Silt, as 250-255 above, grades into silty sand, occasional quartz grain has slight yellow staining.
265-270	Silty Sand, light to medium brown, clear finely grained, sub-angular, medium sorted quartz, very dirty common medium brown silty interstitial material, common white and light fawn clay grains and inclusions, scattered small carbonaceous wood fragments, scattered orange silicified clay grains, about 25% of quartz grain and partially stained orange and yellow, loosely to moderately compacted.

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692166

BORE # 40

DEPTH	STRATIGRAPHIC DESCRIPTION
270-275	Silty Sand, as 265-270 above, occasional yellow clay inclusions.
275-280	Sandy Silt, as 255-260 above.
280-285	Sandy Silt, as 255-260 above.
285-290	Sand, clear, scattered orange, fine to coarse grained, sub-angular to sub-rounded, medium to poorly sorted, quartz, very dirty, common light brown silty interstitial material, scattered orange silt lenses, and white clay grains, scattered to rare carbonaceous wood fragments, angular pebble up to ¼" diameter of iron stained white quartzite, rare very slight orange and pink staining of about 2% of the quartz grains, loosely to moderately compacted.
290-295	Sand, as 285-290 above.
295-300	Sand, as 285-290 above, but fine to medium grained, medium to well sorted and not as dirty.
300-305	Sand, clear, rare pink and orange, fine grained, sub-angular to sub-rounded, medium to well sorted quartz, fairly clean, scattered, light brown silty and white clayey interstitial material, rare reddish-brown ferruginous patches, scattered carbonaceous grains, friable, loosely compacted, about 5% of the grains have slight orange staining.
305-310	Sand, as 300-305 above.
310-315	Sand, as 300-305 above.
315-320	Sand, clear, rare orange, fine to coarse grained, sub-angular to sub-rounded, poorly sorted, quartz, very dirty common light fawn silty and white clayey interstitial material, scattered carbonaceous grains, and white and light grey clay grains, about 2% of quartz is slightly orange stained, friable, loosely compacted.
320-325	Sand, as 315-320 above.
325-330	Sand, as 315-320 above, but fine to very coarse grained, and not so dirty.
330-335	Sand, as 315-320 above.
335-340	Sand, clear, minor light brown and orange, fine to medium grained, sub-angular, poorly sorted, quartz,very dirty common light brown silty interstitial material, scattered stringers of sandy silt, scattered carbonaceous wood fragments and specks, rare orange and yellow silty patches, rare slight orange staining of a few quartz grains, loosely to moderately compacted.
340-345	Sand, clear, medium, occasional coarse grained, sub-angular to sub-rounded, medium sorted, quartz, dirty, common light brown silty interstitial material, scattered white, light grey and orange clay grains and inclusions, scattered carbonaceous wood fragments and fairly dirty carbonaceous matter between the quartz grains like gilsonite (dead oil), about 5% of the grains have black (carbonaceous matter) staining and about 2% have orange staining, loosely to moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
345-350	Sand, as 340-345 above, only very dirty and scattered reddish-brown sideritic clay inclusions and rare rounded light grey hard silicified silt pebble up to ¼" diameter.
350-355	Sand, clear, scattered light brown, fine to coarse grained, occasional pebbles up to 1/16" diameter, sub-angular, medium sorted, quartz, very dirty, common light brown and scattered orange silty interstitial material, common carbonaceous wood fragments, scattered stringers of orange-brown, orange clay, loosely to moderately compacted.
355-360	Clay, light to medium grey and orange stringers, scattered white and orange inclusions, sandy, scattered fine grained quartz, rare to scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
360-365	Clay, as 355-360 above, except common white clay lenses and inclusions.
365-370	Clay, light medium grey, white, light fawn, orange stringers and inclusions, coarsely textured, becoming silty in places, moderately compacted.
370-375	Clay, as 365-370 above, scattered carbonaceous wood fragments.
375-380	Clay, as 365-370 above, except finely textured, rare angular quartz fragments.
380-385	Clay, mottled, light and medium grey, white fawn, yellow and orange, scattered, sub- angular, pebbles of quartz and quartzite, medium textured, moderately compacted.
385-390	Clay, as 380-385 above.
390-395	Sand, clear, minor light brown, fine to very coarse grained, sub-angular, poorly sorted, quartz, dirty, common light brown silty interstitial material, scattered angular fragments of quartz and quartzite, scattered carbonaceous wood fragments, scattered interbeds and stringers of medium grey and orange clay, moderately compacted.
395-400	Sandy Silt, light brown, common fine to very coarse grained quartz, scattered orange patches, common carbonaceous wood fragments, scattered pebbles of quartz up to 1/16" diameter, coarsely textured, moderately compacted.
400-405	Sandy Silt, as 395-400 above, becoming less sandy.
405-410	Sandy Silt, as 395-400 above, scattered orange and white clay lenses.
410-415	Sandy Silt, as 395-400 above, common yellow and orange patches.
415-420	Sandy Silt, as 395-400 above, grading into a silty sand.
420-425	Silty Sand, clear, fine grained, sub-angular, medium sorted, quartz, very dirty, common light grey and scattered orange silty interstitial material, scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments, loosely to moderately compacted.

BORE # 40

DEPTH	STRATIGRAPHIC DESCRIPTION
425-430	Sandy Silt, light brown and grey, white, scattered yellow and orange, scattered carbonaceous wood fragments, scattered fragments of quartz and sideritic clay, minor limonitic stained patches, coarsely textured, moderately compacted.
430-435	Sandy Silt, as 425-430 above.
435-440	Silty Sand, as 420-425 above.
440-445	Sandy Silt, as 425-430 above.
445-450	Silty Clay, mottled, light brown, grey and orange, scattered carbonaceous wood fragments, scattered fragments of reddish brown sideritic clay, pebbles of quartz and quartzite and broken angular quartz fragments, occasional limonitic staining, coarsely textured, moderately compacted.
450-455	Silty Sand, clear, minor light brown, fine to very coarse grained, sub-angular, poorly sorted, quartz extremely dirty, common light brown, scattered yellow and rare orange silty interstitial material, scattered yellow and orange and minor white clay lenses, scattered to rare carbonaceous wood fragments, scattered clear quartz pebbles up to 1/8" diameter, rare slight orange and yellow staining of a few grains, loosely to moderately compacted.
455-460	Silty Sand, as 450-455 above, becoming very pebbly.
460-465	Silty Sand, as 450-455 above, becoming very pebbly, rare to scattered reddish brown sideritic clay fragments.
465-470	Silty Sand, as 460-465 above, predominantly very coarse grained.
470-475	Silty Sand, as 465-470 above, sideritic clay fragments are more common.
475-480	Silty Sand, clear minor light brown and yellow, medium to coarse grained, sub-angular, poorly sorted, quartz, very dirty, common light brown and white and occasional orange silty interstitial material, scattered carbonaceous wood fragments, rare slight orange and yellow staining of a very few grains, loosely to moderately compacted.
480-485	Silty Sand, as 450-455 above, but predominantly coarse grained.
485-490	Silty Sand, as 450-455 above, but predominantly coarse grained.
490-495	Silty Sand, as 450-455 above, but predominantly coarse grained.

All samples are S/32/32/0

Q47/1 73-139

BORE # 41

692169

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Silt, light grey, common, clear, minor yellow, brown and orange, fine grained, sub-rounded, poorly sorted quartz, set in a light grey silty matrix, coarsely textured, moderately compacted.
5-10	Sandy Clay, light brown and light orange-brown, common, clear and minor pink and light brown, fine grained, sub-angular, poorly sorted quartz set in clay matrix, coarsely textured, moderately compacted.
10-15	Clay, scattered medium grey, orange-brown, minor dark reddish-brown stringers, scattered carbonaceous wood fragments, scattered coarse grained, sub-rounded, poorly sorted, grains of clear, yellow and orange quartz, rare pyrite rosette, scattered rounded dark reddish-brown ferruginous nodules, coarsely textured, moderately compacted.
15-20	Clay, light orange, minor yellow and very light grey stringers, scattered to common dark reddish-brown ferruginous and yellow limonitic nodules and inclusions, medium textured, moderately compacted.
20-25	Clay, as 15-20 above, scattered coarse grained light orange quartz.
25-30	Clay, as 20-25 above.
30-35	Clay, as 20-25 above.
35-40	Clay, as 20-25 above, ferruginous nodules up to ¼" diameter, occasional carbonaceous wood fragments.
40-80	Missing
80-85	Clay, mottled, white, light brown, orange, yellow, minor red, scattered to rare dark reddish-brown ferruginous rounded nodules and orange-yellow limonitic angular inclusions, finely textured, moderately compacted.
85-90	Clay, as 80-85 above.
90-95	Clay, as 85-90 above.
95-100	Clay, as 85-90 above.
100-105	Clay, as 85-90 above.
105-110	Clay, as 85-90 above.
110-115	Clay, as 85-90 above.
115-120	Clay, mottled, light, medium, dark brown and grey, white orange, yellow, rare red specks, rare yellow-orange limonitic fragments (cavings?)
120-125	Clay, as 80-85 above.
125-130	Clay, light grey, orange stringers, scattered red streaks and patches, finely textured, moderately compacted.
130-135	Clay, as 120-125 above, scattered limonitic coated clay inclusions, rare carbonaceous wood fragments.
135-140	Clay, mottled orange, white, light to medium grey, light medium and dark brown, scattered red streaks, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
140-215	Missing
215-220	Clay, mottled, orange, orange-brown, light and dark brown, rare white and red patches, scattered rounded dark reddish-brown ferruginous nodules, rare coarse grained quartz, rare carbonaceous mud inclusions, finely to medium textured, moderately compacted.
220-225	Clay, as 215-220 above, except scattered carbonaceous wood fragments and carbonaceous mud stringers, coarsely textured, becoming silty in places.
225-230	Clay, medium brown, orange, light grey, scattered dark reddish-brown, rounded ferruginous nodules, yellow limonitic coated clay inclusions, scattered carbonaceous wood fragments, and carbonaceous matter, finely to medium textured, moderately compacted.
230-235	Clay, as 225-230 above.
235-240	Interbedded Silt and Clay, the silt is light grey and white, coarsely textured becoming sandy in places, the clay is orange, medium grey and minor white, scattered carbonaceous fragments, scattered limonitic coated clay inclusions.
240-245	Clay, mottled, medium and dark orange-brown, orange, yellow, white, light grey, scattered carbonaceous wood fragments, occasional sub-angular to rounded quartz, pebbles up to 1/8" diameter, scattered limonitic coated clay inclusions, medium textured, moderately compacted.
245-250	Clay, medium orange-brown and orange, stringers, scattered white streaks, scattered carbonaceous wood fragments, rare limonitic coated clay inclusions, fine to medium textured, moderately compacted.
250-255	Clay, as 245-250 above.
255-260	Clay, as 245-250 above, carbonaceous material becoming more common.
260-265	Clay, as 255-260 above, carbonaceous wood fragments 35%
265-270	Clay, as 245-250 above.
270-275	Clay, as 255-260 above.
275-280	Clay, as 245-250 above.
280-285	Clay, as 245-250 above.
285-290	Clay, mottled, orange-brown, orange, white to very light grey, rare red patches, scattered carbonaceous mud and wood fragments which are coated with reddish-orange limonite, rare to scattered limonitic coated clay inclusions, finely to medium textured, moderately compacted.
290-295	Clay, as 285-290 above.
295-300	Clay, as 285-290 above, only rare carbonaceous wood fragments.

DEPTH	STRATIGRAPHIC DESCRIPTION
300-305	Clay, mottled, white, light to medium brown, orange, rare red, scattered coarse grained clear quartz, finely to medium textured, moderately compacted.
305-310	Clay, mottled, white, light, medium and dark grey, medium orange-brown and orange, scattered carbonaceous wood fragments, scattered dark brown limonitic clay inclusions, finely to medium textured, moderately compacted.
310-315	Clay, as 305-310 above.
315-320	Clay, very light grey and orange stringers, rare limonitic coated clay inclusions, rare carbonaceous wood fragments, finely textured, moderately compacted.
320-325	Clay, very light grey, orange, medium grey, stringers, scattered silty lenses, scattered carbonaceous wood fragments and matter, occasional dark reddish-brown ferruginous? staining, finely to medium textured, moderately compacted.
325-330	Clay, as 320-325 above.
330-335	Clay, light grey, orange, yellow stringers and minor red streaks, scattered carbonaceous matter and wood fragments, scattered dark reddish-brown rounded ferruginous nodules, rare orange silt lenses, medium textured, moderately compacted.
335-340	Clay, as 330-335 above.
340-345	Clay, as 330-335 above, occasional medium grained quartz.
345-350	Clay, mottled, very light grey, orange-brown and orange, rare medium to dark grey, scattered carbonaceous wood fragments, scattered to common orange limonitic nodules and staining, rare fine to medium grained quartz, medium to coarsely textured, moderately compacted.
350-355	Clay, light and medium to dark grey, orange and medium brown, scattered carbonaceous streaks and wood fragments, scattered dark reddish-brown rounded ferruginous nodules, finely to medium textured, moderately compacted.
355-360	Clay, mottled, white, light grey, dark grey, yellow, orange, scattered carbonaceous wood fragments, medium textured, moderately compacted.
360-365	Clay, mottled, white, very light grey, light brown, yellow orange, scattered to rare silty patches, scattered carbonaceous wood fragments, scattered limonitic coated rounded ferruginous clay nodules and fragments, finely to medium textured, moderately compacted.
365-370	Clay, predominantly white and very light grey, scattered lenses and inclusions of yellow and orange, scattered carbonaceous streaks and wood fragments, scattered patches or rusty orange silt containing rounded limonitic clay nodules, medium textured, moderately compacted.
370-375	Clay, mottled, white, light grey, medium greyish-brown, light brown, yellow and orange, scattered carbonaceous wood fragments, scattered dark reddish-brown, rounded, ferruginous nodules, scattered ferruginous staining, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
375-380	Clay, as 370-375 above, scattered red coating of some clay fragments.
380-385	Clay, as 375-380 above, rare fine to medium grained quartz.
385-390	Clay, as 375-380 above, medium to coarsely textured.
390-395	Clay, light grey, scattered orange stringers becomes silty in patches, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
395-400	Clay, as 390-395 above, scattered reddish-brown ferruginous clay fragments and nodules, medium to coarsely textured, moderately compacted.
400-405	Sand, clear, rare orange, fine to coarse grained, sub-angular to sub-rounded, poorly sorted quartz, extremely dirty, common light to medium silty and clayey interstitial material, scattered carbonaceous wood fragments and matter, about 5-10% of quartz grains have black staining in pits, less than 5% of quartz grains have minor orange and yellow staining, moderately compacted.
405-410	Sand, as 400-405 above except grades into a sandy clay in places, scattered orange clay inclusions and lenses, scattered orange-brown siderite nodule clusters and hard orange silt lenses, moderately compacted.
410-415	Sand, as 400-405 above, except grades into a sandy clay in places.
415-420	Sand, clear, fine to medium grained, sub-angular to sub-rounded, poorly sorted, quartz, very dirty, common light grey silty interstitial material, scattered carbonaceous wood fragments, scattered orange silt inclusions, rare black staining? in pits of a few quartz grains, moderately compacted.
420-425	Sandy Silt, light grey, scattered orange patches, common fine to medium grained clear quartz set in grey silty and clayey matrix, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
425-430	Sandy Clay, light grey, scattered rusty orange and dark grey patches, scattered orange silt stringers, common fine to very coarse grained clear quartz, scattered carbonaceous wood fragments, rare reddish-brown sideritic nodule clusters, coarsely textured, moderately compacted.
430-435	Sandy Clay, as 425-430 above, common red stained, orange clay stringers, scattered limonitic coated clay inclusions.
435-440	Sandy Clay, as 430-435 above.
440-445	Clay, mottled, light grey and brown, orange, white and medium to dark grey, scattered patches and lenses of orange ferruginous silt, scattered carbonaceous wood fragments, coarsely textured, becoming silty and sandy in places, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
445-450	Silt, light grey, sandy, common lenses and inclusions of orange clay, scattered carbonaceous wood fragments, scattered limonitic nodules, coarsely textured, moderately compacted.
450-455	Silt, as 445-450 above.
455-460	Silt, as 445-450 above.
460-465	Interbedded Silt and Clay, the silt is light to medium grey, yellow, light fawn and orange, coarsely textured and occasionally ferruginous. The clay is orange, medium to dark grey, finely to medium textured, contains scattered carbonaceous wood fragments, scattered very coarse grained clear quartz.
465-470	Interbedded Silt and Clay, as 460-465 above.
470-475	Silty Clay, medium grey and brown, scattered white and orange patches and inclusions, scattered silt and fine grained lithic sand lenses, scattered carbonaceous wood fragments, scattered coarse grained, sub-rounded clear quartz, coarsely textured, moderately compacted.
475-480	Silty Clay, as 470-475 above, common rusty orange patches and silt lenses and ferruginous sand patches.
480-485	Interbedded Silt and Clay, as 460-465 above.
485-490	Interbedded Silt and Clay, as 460-465 above.
490-495	Sandy Silt, light grey, rare patches, common fine to coarse grained quartz, scattered carbonaceous wood fragments and matter, very coarsely textured, moderately compacted.
495-500	Sandy Silt, as 490-495 above, and clay, orange, yellow, white, fine to medium textured, moderately compacted.

All samples are S 34/34/0 —

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Q47/1 73-939

BORE # 42

692174

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light blue-grey, yellow, orange and scattered dark grey stringers, scattered reddish-brown ferruginous nodules, finely textured, moderately compacted.
5-10	Clay, dark orange-brown and dark grey stringers, scattered dark orange-brown ferruginous nodules, finely textured, moderately compacted.
10-15	Clay, light bluish-grey with light orange tinges and patches and streaks, waxy appearance, plastic, finely textured, well compacted.
15-20	Clay, mottled bluish-grey, orange-brown, orange and minor red, plastic, finely textured, well compacted.
20-25	Clay, medium tan, plastic, finely textured, moderately compacted.
25-30	Clay, medium tan, rare bluish-grey stringers, rare limonitic clay inclusions, plastic, finely textured, well compacted.
30-35	Clay, as 20-25 above.
35-40	Clay, as 25-30 above, also minute carbonaceous inclusions.
40-45	Clay, as 25-30 above, also minute carbonaceous inclusions.
45-50	Clay, as 35-40 above.
50-55	Clay, as 20-25 above, rare dark grey stringers.
55-60	Clay, dark brown, scattered medium tan and light fawn stringers, rare orange streaks and patches.
60-65	Clay, dark brown, plastic, finely textured, well compacted.
65-70	Clay, as 60-65 above, rare orange clay inclusions.
70-75	Clay, as 60-65 above.
75-80	Clay, as 60-65 above.
80-85	Clay, dark brown, scattered very fine grained mica, medium textured, moderately to well compacted.
85-90	Clay, medium to dark brown, scattered orange-brown inclusions, fine orange patches, rare blue clay, mineral inclusion (vivianite?), finely to medium textured, moderately to well compacted.
90-95	Clay, medium to dark brown, finely to medium textured, moderately to well compacted.
95-100	Clay, as 90-95 above.
100-105	Clay, medium to dark brown, medium textured, moderately to well compacted.
105-110	Clay, as 100-105 above.
110-115	Clay, as 100-105 above.
115-120	Clay, as 100-105 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
120-125	Clay, as 100-105 above.
125-130	Clay, as 100-105 above.
130-135	Clay, as 100-105 above.
135-140	Clay, as 100-105 above.
140-145	Clay, as 100-105 above.
145-150	Clay, as 100-105 above, rare orange patches.
150-155	Clay, as 100-105 above.
155-160	Clay, as 100-105 above.
160-165	Clay, as 100-105 above.
165-170	Clay, as 100-105 above.
170-175	Clay, as 100-105 above.
175-180	Clay, as 100-105 above.
180-185	Clay, mottled medium and dark brown, orange-brown, orange, white, yellow, rare dark reddish-brown ferruginous clay inclusions, finely to medium textured, moderately compacted.
185-190	Clay, mottled as 180-185 above plus medium grey colour.
190-195	Clay, as 185-190 above.
195-200	Clay, as 185-190 above, rare carbonaceous wood fragments.
200-205	Clay, mottled light fawn, medium and dark brown, orange, yellow and white, scattered carbonaceous streaks and wood fragments, occasional limonitic coated clay pebble, finely to medium textured, moderately compacted.
205-210	Clay, as 200-205 above.
210-215	Clay, as 200-205 above.
215-220	Clay, as 200-205 above.
220-255	Missing
255-260	Sand, clear, minor white and grey, medium to coarse grained, sub-angular to angular, poorly sorted quartz, fairly clean, rare light fawn silty and clayey interstitial material, scattered white and orange clay fragments, very slight orange staining on a few quartz grains.
260-265	Sand, as 255-260 above.
265-270	Sand, as 255-260 above.
270-275	Sand, as 255-260 above, common orange, white and brown clay stringers, scattered carbonaceous wood fragments.
275-280	Sand, as 270-275 above.
280-285	Sand, as 270-275 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
285-290	Sand, as 270-275 above, except fine to medium grained.
290-295	Clay, mottled light fawn, medium brown, orange-brown, orange, white and red, scattered to common carbonaceous wood fragments, occasional limonitic? coatings, rare fragments of angular quartz and quartzite, finely to medium textured, moderately compacted.
295-300	Clay, as 290-295 above, except rare carbonaceous wood fragments and scattered very coarse grained sub-rounded quartz.
300-305	Clay, mottled light, medium and dark brown, orange-brown, bright orange and white, scattered to common limonitic coated dark reddish-brown hard ferruginous inclusions, rare coarse grained quartz, finely to medium textured, moderately compacted.
305-310	Clay, as 290-295 above, except no quartz or quartzite grains and rare carbonaceous wood fragments.
310-315	Clay, as 305-310 above, scattered silty lenses.
315-320	Clay, mottled, dark grey-brown, orange-brown, bright orange, red, light fawn, yellow and white, rare patches of silt, medium textured, moderately compacted.
320-325	Clay, as 315-320 above, rare carbonaceous wood fragments.
325-330	Clay, as 320-325 above, occasional quartz grains.
330-335	Clay, as 325-330 above.
335-340	Clay, as 315-320 above.
340-345	Clay, as 320-325 above.
345-350	Clay, as 315-320 above, common light brown silt stringers.
350-355	Clay, mottled, medium brown, orange-brown, orange, yellow, white, scattered light brown silt lenses, occasional sideritic coated dark reddish-brown ferruginous clay inclusions, rare coarse grained quartz, rare to scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
355-360	Clay, as 350-355 above.
360-365	Clay, as 350-355 above, commonly silty, coarse textured.
365-370	Clay, as 360-365 above.
370-375	Silt, light to medium brown, common interbeds, stringers and lenses of white, orange and apricot, finely textured clay, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
375-380	Clay, mottled, light, medium and dark brown, occasional medium grey, common orange and white, scattered silt lenses and patches, scattered very coarse grained grey quartz, scattered carbonaceous wood fragments coated with orange limonitic clay, finely to medium textured, moderately compacted.

BORE # 42

DEPTH	STRATIGRAPHIC DESCRIPTION
380-385	Clayey Silt, medium grey-brown, common bright orange, finely textured clay stringers and interbeds, scattered white clay inclusions, scattered dark hard reddish-brown, angular ferruginous clay inclusions, rare small carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
385-390	Clayey Silt, as 380-385 above.
390-395	Clayey Silt, as 380-385 above, scattered orange silt patches.
395-400	Clay, medium and dark brown, scattered orange, yellow and white lenses and inclusions, occasional limonitic coating and staining, rare dark hard reddish-brown angular sideritic clay inclusions, scattered small carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
400-405	Silty Clay, medium and dark grey, medium brown, scattered white and orange clay inclusions, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
405-410	Silt, mottled, medium brown, orange, white, common orange clay inclusions, coarsely textured, moderately compacted.
410-415	Silt, as 405-410 above.
415-420	Silty Clay, light and medium brown, light orange, common orange and white finely textured clay interbeds and lenses, scattered carbonaceous wood fragments, scattered dark reddish-brown sideritic clay fragments, occasional orange limonitic staining, occasional coarse grained quartz, coarsely textured, moderately compacted.
420-425	Silty Clay, as 415-420 above.
425-430	Silty Clay, as 415-420 above, plus lenses of orange silt.
430-435	Silty Clay, as 425-430 above.
435-440	Sandy Silt, light and medium greyish-brown and orange-brown, common interbeds of mottled dark brown, white and orange clay, scattered carbonaceous wood fragments, scattered reddish-brown sideritic fragments, coarsely textured, moderately compacted.
440-445	Sandy Silt, as 435-440 above.
445-450	Sandy Silt, as 435-440 above.
450-455	Clay, mottled light, medium and dark brown, orange, yellow and white, becomes silty in patches, scattered dark brown sideritic clay inclusions, rare carbonaceous wood fragments, finely to medium textured, moderately compacted.
455-460	Clay, light and medium grey-brown, scattered lenses and inclusions of white and orange and yellow clay, scattered orange brown sandy silt lenses, occasional very coarse grained quartz, rare carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
460-465	Clay, as 455-460 above, coarsely textured

BORE # 42

DEPTH	STRATIGRAPHIC DESCRIPTION
465-470	Silt, medium brown and orange-brown, occasional yellowish-orange clay lenses, scattered dark reddish-brown sideritic clay, angular inclusions, coarsely textured, moderately compacted.
470-475	Clay, as 455-460 above.
475-480	Clay, medium brown and orange, minor white stringers and lenses, occasional coarse grained quartz, medium textured, moderately compacted.
480-485	Clay, as 475-480 above, scattered reddish-brown sideritic clay fragments.
485-490	Clay, as 480-485 above.
490-495	Clay, as 480-485 above.
495-500	Clay, as 480-485 above.

All samples are S 33/33/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, medium orange and pinkish-brown, common rounded, dark brown to black ferruginous nodules up to ½" diameter, scattered coarse grained, quartz, coarsely textured, moderately compacted.
5-10	Silty Clay, mottled, orange, pink, yellow, white and light grey, coarsely textured, moderately compacted.
10-15	Clay, as 5-10 above, scattered dark brown to black ferruginous nodules.
15-20	Clay, bright reddish-orange, rare specks and minute inclusions of white and yellow clay, rare finely grained quartz, finely to medium textured, moderately compacted.
20-25	Clay, as 15-20 above.
25-30	Clay, mottled, bright reddish-orange, white and yellow, scattered dark brown to black ferruginous nodules, scattered coarse grained quartz, medium textured, moderately compacted.
30-35	Pebble Silt, coarse grained and pebbles of clear, smokey orange and white, sub-angular to angular, poorly sorted, quartz and rounded dark brown to black ferruginous nodules up to ¼" diameter set in mottled orange, pink, brown and white silt matrix, scattered to rare carbonaceous wood fragments, most of quartz is limonite stained yellow or orange, coarsely textured, loosely compacted.
35-40	Pebble Silt, as 30-35 above, scattered angular quartz fragments up to ½" diameter (broken boulders?)
40-45	Pebble Silt, as 30-35 above, except pebbles are sub-rounded to rounded, and ½' to ¾" diameter, common limonitic coatings.
45-50	Pebble Silt, as 30-35 above, common orange, yellow and light brown clay pebbles.
50-55	Pebble Clay, pebbles of rounded white clear, light brown and orange and smokey quartz and dark brown ferruginous nodules set in a mottled, dark brown, pink, white, yellow clay matrix, quartz grains are pitted and often slightly stained yellow and orange.
55-60	Clay, dark brown, scattered yellow, reddish-brown, orange clay (some limonitic?) inclusions, scattered coarse grained, sub-angular to angular, pitted quartz having slight yellow limontic staining in pits, finely to medium textured, moderately compacted.
60-65	Clay, dark brown, scattered limonitic coated dark brown ferruginous nodules and coarse grained, sub-angular to angular, quartz showing slight yellow staining, scattered patches and streaks of yellow (limonitic?) clay, finely to medium textured, moderately compacted.
65-70	Clay, as 60-65 above, scattered red and yellow coated ferruginous nodules.
70-75	Clay, as 60-65 above.
75-80	Clay, as 60-65 above.

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692180

BORE # 43

DEPTH	STRATIGRAPHIC DESCRIPTION
80-85	Clay, as 60-65 above.
85-90	Clay, dark brown, common, white, yellow, orange, red clay and silt inclusions and lenses, scattered limonitic coated ferruginous nodules, scattered light brown, stained coarse grained quartz, medium to coarsely textured, moderately compacted.
90-95	Clay, as 85-90 above.
95-100	Clay, as 85-90 above.
100-105	Clay, dark brown, scattered orange, yellow, minor white and rare red stringers, lenses and patches, scattered limonitic nodules, scattered coarse grained quartz, medium textured, moderately compacted.
105-110	Clay, as 100-105 above.
110-115	Clay, as 100-105 above, scattered reddish-brown sideritic clay fragments.
115-120	Clay, as 110-115 above.
120-125	Carbonaceous Wood Fragments 95%; sandy silt, light grey common fine to coarse grained quartz, 5%
125-130	Carbonaceous Wood Fragments, 85%; 15% sand, light grey, clear, fine to medium grained, sub-angular, medium sorted quartz, very dirty, common silty and white clayey interstitial material, rare limonitic silt inclusions, scattered very coarse grained quartz.
130-135	Carbonaceous Wood Fragments, 80%; sand, 20% as 125-130 above.
135-140	Carbonaceous Wood Fragments, 80%; sand, 20% as 125-130 above.
140-145	Carbonaceous Wood Fragments, 75%; sand, 25% as 125-130 above.
145-150	Sand, slight orange stained, clear, light brown, white, fine to coarse grained, sub-angular, medium to poorly sorted, quartz, dirty, scattered light brown and white clayey and rare orange limonitic clayey interstitial material, common carbonaceous wood fragments (50%)
150-155	Clay, light and medium brown and grey, minor white, scattered orange, scattered very coarse grained to pebbles of angular, clear, and white quartz, common carbonaceous wood fragments 25%
155-160	Sand, clear, light brown, yellow (slight orange staining of 30% of grains), fine to coarse grained, sub-angular, poorly sorted quartz, very dirty, common orange and white silty interstitial material, common carbonaceous wood fragments.
160-165	Sand, clear, white, light brown, very coarse grained, sub-angular to angular, poorly sorted, quartz, fairly clean to dirty, scattered orange limonitic clayey interstitial material, scattered carbonaceous wood fragments 10%.
165-170	Clay, light and medium grey, scattered orange and light brown patches, scattered very coarse grained and pebbles of angular quartz and quartzite, common carbonaceous wood fragments 25%

DEPTH	STRATIGRAPHIC DESCRIPTION
170-175	Sand, clear, minor white, rare smokey and light brown, coarse to very coarse grained, sub-angular to sub-rounded, poorly sorted, quartz, clean, scattered light brown and orange limonitic clayey interstitial material, common rounded pebbles up to 1" diameter and angular fragments of quartz and quartzite, rare rounded dark brown ferruginous nodules, rare orange staining of only a few grains, loosely compacted.
175-180	Sand, as 170-175 above, rare carbonaceous wood fragments.
180-185	Sand, as 175-180 above, scattered limonite nodule fragments.
185-190	Sand, as 180-185 above.
190-195	Carbonaceous Wood Fragments 95%; rare light grey clay
195-200	Carbonaceous Wood Fragments 95%; scattered very coarse grained of clear, white, bright red, frosted, rounded, quartz, minor light grey clay.
200-205	Carbonaceous Wood Fragments 95%; clay light grey 5%
205-210	Carbonaceous Wood Fragments 80%; clay white, hard scattered angular fragments of clear and white vein quartz and quartzite.
210-215	Clay, dark grey to black, carbonaceous, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
215-220	Clay, as 210-215 above, scattered angular fragments of quartz and quartzite, scattered fragments of light fawn hard silicified clay.
220-225	Clay, as 215-220, common (50%) carbonaceous wood fragments some of which have orange coating of limonitic clay.
225-230	Clay, medium to dark grey, scattered light brown and white lenses, common carbonaceous wood fragments (10%), scattered light orange stained, coarse grained quartz and fragments of cream quartzite, rare dark igneous fragments, finely to medium textured, moderately compacted.
230-235	Clay, medium to dark grey, scattered lenses of white, light fawn clay, common carbonaceous mud and carbonaceous wood fragments, scattered angular fragments of light fawn quartzite and white quartz, finely to medium textured, moderately compacted.
235-240	Clay, as 230-235 above.
240-245	Carbonaceous Wood Fragments 60%; clay light grey, scattered to rare fragments of light brown quartzite, rare fragments of sideritic clay.
245-250	Carbonaceous Wood Fragments 65%; clay light and medium grey and fawn, scattered hard silicified white clay (tuff?)
250-255	Carbonaceous Wood Fragments 85%; scattered light grey and fawn clay, scattered sub-angular to angular, coarse grained and fragments of clear, white and light brown quartz and quartzite.

DEPTH	STRATIGRAPHIC DESCRIPTION
255-260	Carbonaceous Wood Fragments 85%; and clay as 250-255 above, rare orange limonitic clay fragments and reddish-brown sideritic clay fragments.
260-265	Carbonaceous Wood Fragments, 80%; and clay as 255-260 above.
265-270	Clay, medium and light grey and fawn, common carbonaceous wood fragments 45%, scattered angular fragments of reddish-brown sideritic clay, scattered limonitic clay nodules, scattered fragments of quartz and quartzite, medium to coarsely textured, moderately compacted.
270-275	Clay, as 265-270 above, scattered white tuff?
275-280	Clay, as 270-275 above, except carbonaceous wood fragments 75%
280-285	Clay, as 275-280 above.
285-290	Clay, as 275-280 above.
290-295	Clay, as 275-280 above.
295-300	Clay, as 275-280 above.
300-305	Sand, clear, light brown, scattered smokey, rare yellow, fine to coarse grained, sub-angular, poorly sorted, quartz, fairly clean, scattered light brown silty interstitial material, common siderite grains and nodules, scattered orange limonitic sandy clay, scattered carbonaceous wood fragments, rare platy lemon shale? fragments, scattered fragments of reddish-brown sideritic clay, about 20% of quartz has slight orange limonitic staining, friable, loosely compacted.
305-310	Sand, as 300-305 above, but generally fine to medium grained.
310-315	Silt, light grey, sandy in patches, common carbonaceous wood fragments, coarsely textured, moderately compacted.
315-320	Silt, as 310-315 above, scattered orange patches, carbonaceous wood fragments 60%
320-325	Silt, light grey and fawn, scattered very coarse grained, sub-angular, clear quartz, and rare fragments of quartzite, scattered to common carbonaceous wood fragments, coarsely textured, moderately compacted.
325-330	Sandy Silt, light grey and fawn, white and rare patches of orange, common carbonaceous wood fragments, common very coarse grained white, clear and light brown, sub-angular, quartz, rare reddish-brown sideritic clay fragments, coarsely textured, loosely to moderately compacted.
330-335	Sandy Silt, as 325-330 above, carbonaceous wood fragments 30%
335-340	Silty Sand, clear, light brown, white, fine to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, common, light brown, orange, yellow and white silty and clayey interstitial material, scattered carbonaceous wood fragments, scattered slight orange limonitic staining of about 20% quartz grains.

BORE # 43

DEPTH	STRATIGRAPHIC DESCRIPTION
340-345	Silty Sand, as 335-340 above.
345-350	Sand, clear, light brown, white, fine to medium grained, sub-angular, medium sorted, quartz, dirty, common light brown and orange limonitic silty and clayey interstitial material, scattered carbonaceous wood fragments, occasional very coarse grained quartz, loosely to moderately compacted.
350-355	Sand, as 345-350 above, orange limonitic clay is more common.
355-360	Carbonaceous Wood Fragments, 95%, clay light grey, scattered medium grained, quartz.
360-365	Carbonaceous Wood Fragments, 90%, clay bright orange, light brownish-grey, scattered fragments, very coarse grained, clear and white quartz and quartzite, scattered white tuffaceous? clay.
365-370	Carbonaceous Wood Fragments, 90% and clay as 360-365 above.
370-375	Carbonaceous Wood Fragments, 95%, clay, light grey, scattered loose quartz grains.
375-380	Sand, clear, light brown, medium to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, common light brown and orange limonitic silty and clayey interstitial material, common very coarse grained and nodules of reddish-brown siderite, scattered carbonaceous wood fragments about 5% of the quartz has slight orange and yellow limonitic staining, loosely compacted.
380-385	Sand, as 375-380 above, except common very coarse grained and pebbles and fragments of quartz and quartzite, scattered to rare sideritic clay fragments, common carbonaceous wood fragments.
385-390	Sandy Silt, medium grey, scattered orange-brown, very coarse grained and small pebbles and fragments of quartz and quartzite set in silty matrix, rare white tuffaceous? clay, scattered carbonaceous wood fragments.
390-395	Sandy Silt, as 385-390 above.
395-400	Sandy Silt, as 385-390 above, but less sandy, scattered reddish-brown sideritic clay fragments.
400-405	Sandy Silt, light grey and fawn, common fine to very coarse grained quartz, common carbonaceous wood fragments, scattered fragments of sideritic clay, coarsely textured, moderately compacted.
405-410	Sandy Silt, as 400-405 above, scattered orange and brown patches.
410-415	Sandy Silt, as 405-410 above, occasional angular fragments of white and cream vein quartz.
415-420	Silt, light grey and fawn, minor orange brown and reddish-brown, common carbonaceous wood fragments, occasional very coarse grained quartz, coarsely textured, moderately compacted.
420-425	Silt, as 415-420 above, becoming sandy in places.

DEPTH	STRATIGRAPHIC DESCRIPTION
425-430	Sandy Silt, light to medium grey, scattered light fawn and rare orange-brown, common fine to very coarse grained, quartz, scattered angular fragments of clear, white and light brown quartz and quartzite, common carbonaceous wood fragments, scattered fragments of reddish-brown sideritic clay, very coarsely textured, grades into silty sand in places, moderately compacted.
430-435	Sandy Silt, as 425-430 above.
435-440	Sandy Silt, as 425-430 above.
440-445	Sandy Silt and Sandy Clay, as 425-430 above, common carbonaceous wood fragments 60%
445-450	Sandy Clay, light grey, rare light fawn, common clear, light brown and cream angular fragments and very coarse grained quartz and quartzite, common carbonaceous wood fragments, coarsely textured, moderately compacted.
450-455	Sandy Clay, as 445-450 above, carbonaceous wood fragments 60%, scattered very coarse grained quartz.
455-460	Sandy Silt, as 425-430 above.
460-465	Silty Sand, clear, cream, light brown, medium to very coarse grained, sub-angular to angular, poorly sorted, quartz, very dirty, common light grey silty and clayey interstitial material, common carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments, loosely to moderately compacted.
465-470	Sand, clear, scattered light brown and rare white, medium to coarse grained, sub-angular, medium sorted, quartz, dirty, scattered light brown silty and white clayey interstitial material, rare to scattered carbonaceous wood fragments, occasional sideritic clay fragments (caving?) loosely to moderately compacted.
470-475	Sand, clear, minor light brown, fine to coarse grained, sub-angular, poorly sorted, quartz, very dirty, common light brown silty and white clayey interstitial material, scattered quartz pebbles up to 1/16" diameter, scattered carbonaceous wood fragments, moderately to loosely compacted.
475-480	Sand, as 470-475 above, scattered orange-brown silty interstitial material.
480-485	Sand, clear, light brown, medium to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, common light brown silty interstitial material, scattered coarse grained and nodules of reddish-brown siderite, scattered carbonaceous wood fragments, loosely to moderately compacted.

All samples are S 35/35/0

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BORE # 44

692185

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Silt, orange-brown, common fine to coarse grained, clear, light brown and orange stained quartz, scattered dark brown ferruginous nodules, coarsely textured, loosely to moderately compacted.
5-10	Sandy Clay, mottled, white, light brown, orange and pink, common coarse grained quartz, scattered limonitic nodules, medium textured, moderately compacted.
10-15	Clay, white, pink, red and purple stringers and streaks, scattered red angular clay inclusions, finely to medium textured, moderately compacted.
15-20	Clay, red, white and rare yellow stringers and streaks, scattered dark brown angular clay inclusions, finely textured, moderately compacted.
20-25	Clay, reddish-orange, pink, yellow and scattered white stringers and inclusions, scattered dark brown ferruginous clay inclusion, finely textured, moderately compacted.
25-30	Clay, as 20-25 above.
30-35	Clay, as 20-25 above.
35-40	Clay, as 20-25 above.
40-45	Clay, mottled, light fawn, medium and dark brown and grey, red, yellow, orange, apricot and white, finely textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, light to medium orange brown, scattered very light grey and white stringers, scattered medium to coarse grained quartz, rare carbonaceous wood fragments, occasional yellow limonitic nodules, scattered dark brown clay fragments, medium textured, moderately compacted.
55-60	Clay, light and medium grey, orange, pink and red, minor yellow stringers and streaks, scattered carbonaceous matter and wood fragments, medium textured, moderately compacted.
60-65	Clay, light grey and fawn, common fine grained, quartz, scattered carbonaceous blebs and wood fragments, medium textured, moderately compacted.
65-70	Silt, light grey to white and light fawn, scattered fine to medium grained quartz, scattered carbonaceous matter, scattered bright red and dark brown clay inclusions, medium to coarsely textured, moderately compacted.
70-75	Silt, light grey, minor light yellow, scattered lenses of carbonaceous matter, scattered to rare orange patches, coarsely textured, becoming sandy in places, moderately compacted.
75-80	Silt, as 70-75 above.
80-85	Silt, mottled, light grey, white and yellow, rare medium grey, scattered white, grey and yellow clay lenses, medium to coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
85-90	Silt, as 80-85 above, except coarsely textured, grading into a sandy silt in places.
90-95	Sandy Silt, white, lemon, lilac, common fine to very coarse grained quartz, scattered small carbonaceous fragments, very coarsely textured, moderately compacted.
95-100	Sandy Silt, as 90-95 above, grades into silty sand in places.
100-105	Sand, clear, light brown, yellow, fine grained, sub-angular, medium to well sorted, quartz, extremely dirty, common, pink, white and orange clayey interstitial material, scattered lenses of orange and red clay, scattered carbonaceous specks, loosely to moderately compacted.
105-110	Clayey Sand, clear, light brown, yellow, very fine to coarse grained, sub-angular, poorly sorted, quartz, extremely dirty, common white, yellow, orange, pink and medium grey clayey interstitial material, scattered carbonaceous specks, occasional quartz coated with limonite, loosely to moderately compacted.
110-115	Silt, white, yellow, orange, pink and grey stringers, scattered lenses of white, pink and yellow clay, scattered limonitic patches, scattered to common fine to medium grained quartz, rare carbonaceous specks, coarsely textured, moderately compacted.
115-120	Silt, as 110-115 above, but becoming sandier.
120-125	Silt, as 110-115 above.
125-130	Silt, as 110-115 above.
130-135	Clayey Sand, clear, light brown and minor pink, medium to coarse grained, sub-angular, poorly sorted quartz, extremely dirty, common white, yellow, orange and pink clayey interstitial material, rare limonitic coated grains, scattered white to very light green clay lenses, loosely to moderately compacted.
135-140	Clayey Sand, as 130-135 above.
140-145	Clayey Sand, as 130-135 above.
145-150	Clayey Sand, as 130-135 above, but fine to medium grained, medium sorted.
150-155	Clayey Sand, as 130-135 above.
155-160	Sandy Clay, white to light pink, scattered apricot streaks, patches and inclusions, common fine to coarse grained quartz, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
160-165	Sandy Clay, as 155-160 above, but no carbonaceous wood fragments.
165-170	Sandy Clay, as 155-160 above, plus scattered interbeds of medium and dark grey clay.

DEPTH	STRATIGRAPHIC DESCRIPTION
170-175	Silt, light and medium grey, light fawn, scattered carbonaceous wood fragments, scattered clear and orange quartz, finely to medium textured, moderately compacted.
175-180	Silt, as 170-175 above, plus interbeds of yellow, orange, red and white clay streaks and stringers.
180-185	Clayey Sand, clear, light brown, minor pink and orange, fine to medium grained, sub-angular, poorly sorted, quartz extremely dirty, common white, yellow and light fawn clayey interstitial material, loosely compacted.
185-190	Clayey Sand, as 180-185 but clay more abundant.
190-195	Sandy Clay, white, minor light fawn and yellow patches, common fine to coarse grained quartz, common to very coarse grained quartz, coarsely textured, moderately compacted.
195-200	Clay, as 190-195 above.
200-205	Sand, clear, rare light brown and pink, fine grained, sub-angular, medium sorted, quartz very dirty, common white clayey interstitial material, rare minute carbonaceous fragments, rare orange, yellow and pink patches, moderately compacted.
205-210	Sandy Clay, as 190-195 above.
210-215	Clayey Sand, as 180-185 above.
215-220	Sandy Clay, as 190-195 above.
220-225	Clayey Sand, as 180-185 above, scattered interbeds of medium brown and grey clay.
225-230	Clayey Sand, as 180-185 above, one angular fragment of fine grained ferruginous and silicified sand.
230-235	Clayey Sand, as 180-185 above.
235-240	Clayey Sand, as 180-185 above.
240-245	Clayey Sand, as 180-185 above, which in places grades into sandy clay as 190-195 above.
245-250	Clayey Sand, as 180-185 above
250-255	Sandy Clay, as 190-195 above, scattered carbonaceous wood fragments and streaks of orange clay.
255-260	Clayey Sand, as 180-185 above, except medium to coarse grained.
260-265	Clayey Sand, as 255-260 above
265-270	Clayey Sand, as 255-260 above.
270-275	Sandy Clay, as 190-195 above.
275-280	Sandy Clay, as 190-195 above.
280-285	Clayey Sand, as 180-185 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
285-290	Clayey Sand, as 180-185 above, scattered orange clay inclusions and fine to coarse grained.
290-295	Clayey Sand, as 180-185 above, only fine to coarse grained.
295-300	Sandy Clay, as 190-195 above.
300-305	Clayey Sand, as 290-295 above
305-310	Clayey Sand, as 290-295 above, scattered angular fragments, dark orange and red-brown hard silicified silt.
310-315	Sandy Clay, as 190-195 above, angular fragments of hard silicified sand containing angular, coarse grained quartz, set in yellow limonitic matrix.
315-320	Silty Sand, clear, light brown, orange, pink, fine to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, common light brown silty interstitial material, scattered carbonaceous wood fragments, fine coal pieces, rare limonitic patches and rare sideritic clay fragments, moderately compacted.
320-325	Sandy Clay, 310-315 above, common carbonaceous wood fragments, scattered inclusions of red and purple clay, angular fragments of orange limonitic hard silicified sand.
325-330	Sandy Clay, as 320-325 above, scattered interbeds, fawn, orange, grey and pink clay.
330-335	Sandy Clay, as 325-330 above.
335-340	Sandy Silt, light to medium grey, common, fine to coarse grained quartz, scattered carbonaceous wood fragments, occasional angular fragments of ferruginous, orange silicified, hard, silt, coarsely textured, moderately compacted.
340-345	Sandy Silt, as 335-340 above, but no angular ferruginous fragments.
345-350	Sandy Silt, medium grey, scattered fine to coarse grained quartz, scattered carbonaceous wood fragments, scattered to rare orange and yellow clay inclusions, coarsely textured moderately compacted.
350-355	Sandy Silt, as 345-350 above, common yellow, brown and red clay lenses, scattered angular reddish-brown ferruginous silicified silt.
355-360	Sandy Silt, as 350-355 above.
360-365	Clay, medium brown and fawn, light grey, scattered yellow stringers and rare orange and red inclusions, occasional sandy silt stringers, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
365-370	Sandy Silt, as 345-350 above.
370-375	Carbonaceous Wood Fragments, 85%; 15% sandy silt as 345-350 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
375-380	Carbonaceous Wood Fragments, 50%; sandy silt as 345-350 above, 50%.
380-385	Clay, light brown, scattered orange and yellow stringers, rare white and red streaks and inclusions, scattered coarse grained quartz, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
385-390	Clay, mottled, light fawn, medium grey and brown, red, yellow, orange, white and minor pink, scattered carbonaceous wood fragments, scattered medium to coarse grained quartz, carbonaceous textured, moderately compacted.
390-395	Clay, as 385-390 above, scattered stringers of light brown and medium grey sandy silt.
395-400	Silt, medium grey, scattered inclusions of orange, red, brown, yellow and white clay, scattered carbonaceous wood fragments, scattered ferruginous silt and clay fragments medium textured, moderately compacted.
400-405	Silt, medium grey, minor yellow, scattered red and orange clay inclusions, occasional angular fragments of dark brown siliceous silt, medium to coarsely textured, moderately compacted.
405-410	Sandy Silt, as silt in 100-105 above.
410-415	Sandy Silt, light brown, medium grey and white, scattered yellow, brown, red, purple clay inclusions, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
415-420	Sandy Silt, as 410-415 above.
420-425	Clay, mottled, light and medium to dark grey, brown, yellow, orange, reddish-brown, white, silty in patches, rare coal fragments, medium to coarsely textured, moderately compacted.
425-430	Sandy Silt, as 410-415 above.
430-435	Clay, light to medium brown, scattered orange, red, white, and grey stringers and lenses, scattered carbonaceous wood fragments, scattered medium grey sandy silt stringers, medium to coarsely textured, moderately compacted.
435-440	Clay, as 430-435 above.
440-445	Clay, as 430-435 above, common red clay inclusions.
445-450	Sandy Silt, 420-425 above.
450-455	Clay, as 430-435 above
455-460	Clay, as 430-435 above.
460-465	Clay, as 430-435 above.
465-470	Clay, as 430-435 above.
470-475	Clay, as 430-435 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
475-480	Clay, light and medium red brown, scattered yellow, orange, pink, red and white lenses and inclusions, scattered light fawn sandy silt stringers, occasional carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
480-485	Clay, as 475-480 above.
485-490	Clay, as 475-480 above.

All samples are S 32/32/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, mottled, orange, light orange-brown and light grey, scattered limonitic nodules, finely textured, moderately compacted.
5-10	Clay, as 0-5 above, scattered carbonaceous wood fragments.
10-15	Clay, mottled, orange, red, yellow, light bluish grey, light fawn, finely textured, moderately compacted.
15-20	Clay, as 10-15 above.
20-25	Clay, as 10-15 above.
25-30	Clay, as 10-15 above.
30-35	Clay, as 10-15 above.
35-40	Clay, light yellowish-brown, scattered light bluish-grey stringers and streaks, rare orange inclusions, finely textured, moderately compacted.
40-45	Clay, mottled, light fawn, orange-brown, orange, yellow, white, rare red and pink, finely textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, as 40-45 above.
55-60	Clay, as 40-45 above.
60-65	Clay, as 40-45 above.
65-70	Clay, as 40-45 above.
70-75	Clay, as 40-45 above.
75-80	Clay, as 40-45 above, common reddish-orange
80-85	Clay, as 40-45 above.
85-90	Clay, as 40-45 above.
90-95	Clay, as 40-45 above.
95-100	Clay, as 40-45 above.
100-105	Clay, as 40-45 above.
105-110	Clay, as 40-45 above.
110-115	Clay, as 40-45 above.
115-120	Clay, as 40-45 above.
120-125	Clay, as 40-45 above.
125-130	Clay, as 40-45 above.
130-135	Clay, as 40-45 above.
135-140	Clay, as 40-45 above.
140-145	Missing

DEPTH	STRATIGRAPHIC DESCRIPTION
145-150	Clay, dark brown, rare to scattered light to medium fawn stringers, scattered reddish-orange and white inclusions, finely textured, moderately compacted.
150-155	Clay, as 145-150 above.
155-160	Clay, dark brown, finely textured, moderately to well compacted.
160-165	Clay, as 155-160 above.
165-170	Clay, mottled medium to dark orange-brown, scattered to rare red, orange and white small inclusions, scattered carbonaceous wood fragments, finely textured, moderately compacted.
170-175	Clay, light fawn, scattered yellow, pink, orange, dark brown, light grey stringers and streaks, scattered red orange and white inclusions, fine to medium textured, moderately compacted.
175-180	Sand, very coarse grained, sub-angular, medium to well sorted quartz, very dirty, common light brown and silty and white clayey interstitial material, scattered carbonaceous wood fragments, friable, loosely to moderately compacted.
180-185	Clay, medium to dark brown, scattered light tan, yellow and pink stringers and inclusions, medium textured, moderately compacted.
185-190	Clay, medium to dark brown, scattered orange lenses and inclusions, common carbonaceous wood fragments coated with orange (limonitic?) clay, medium textured, moderately compacted.
190-195	Clay, as 185-190 above.
195-200	Clay, as 185-190 above, only dark brown and scattered reddish-orange clay inclusions, common (limonitic?) coatings.
200-205	Clay, medium grey and light to medium brown, scattered white and orange clay inclusions, finely to medium textured, moderately compacted.
205-210	Clay, medium brown and orange-brown, scattered orange (limonitic?) patches and clay inclusions, medium textured, moderately compacted.
210-215	Clay, as 205-210 above, scattered carbonaceous wood fragments.
215-220	Clay, as 210-215 above, rare limonitic coated nodules.
220-225	Clay, 205-210 above.
225-230	Silty Clay, light to medium grey, scattered dark brown sideritic clay fragments, rare yellow and orange patches and inclusions, coarsely textured, moderately compacted.
230-235	Silty Clay, as 225-230 above, but no sideritic clay fragments, scattered medium to dark grey clay lenses.
235-240	Silt, light grey and brown, common interbeds of medium grey and brown and minor orange clay, scattered carbonaceous wood fragments, rare coarse grains of quartz, occasional limonitic coated ferruginous nodules, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
240-245	Silt and Clay, as 235-240 above.
245-250	Silty Sand, clear, coarse grained, sub-angular, medium sorted quartz, rare dark grey chert, extremely dirty, common light brown silty interstitial material, scattered carbonaceous wood fragments, scattered orange-brown sideritic clay grains, rare limonitic nodule fragments, scattered clay grains and inclusions, moderately compacted.
250-255	Silty Sand, as 245-250 above.
255-260	Silty Sand, as 245-250 above, common interbeds of medium grey and brown clay showing limonitic? orange staining.
260-265	Silty Sand, clear, coarse to very coarsely grained, sub-angular, poorly sorted quartz, occasional dark grey chert, extremely dirty, common light brown silty interstitial material, scattered white, grey and brown clay grains and inclusions, scattered quartz pebbles up to 1/16" diameter, occasional finely grained sideritic clay, scattered carbonaceous wood fragments, moderately to loosely compacted.
265-270	Sand, as 260-265 above, but less silty.
270-275	Sand, clear, minor white, rare pink, coarse to very coarsely grained, sub-angular to sub-rounded, medium to poorly sorted quartz, and rare dark grey chert, very dirty, common light grey, brown and scattered orange silty interstitial material, scattered angular fragments of quartzite, scattered dark grey, medium brown and orange clay interbeds and white clay inclusions, about 5-10% of quartz has slight orange staining, occasional white vein quartz is also stained orange, moderately compacted.
275-280	Sand, clear, minor white, medium to very coarse grained, sub-angular to sub-rounded, poorly sorted quartz, dirty, scattered to common light brown silty interstitial material, rare dark grey chert, rare small carbonaceous wood fragments, occasional angular fragments of quartzite, loosely to moderately compacted.
280-285	Sand, as 275-280 above, but common silty interstitial material, occasional reddish-brown sideritic clay fragments.
285-290	Silty Sand, clear, rare white, fine to coarsely grained, sub-angular, poorly sorted quartz, very dirty, common light brown silty interstitial material, rare very finely grained sideritic clay grains, rare orange staining of just a few quartz grains, loosely to moderately compacted.
290-295	Silty Sand, as 285-290 above.
295-300	Sand, clear, minor grey and white, coarse to very coarsely grained, angular to sub-rounded, poorly sorted quartz, dirty, common light brown silty interstitial material, scattered white, grey and brown clay fragments and grains, scattered grains of carbonaceous wood fragments, scattered carbonaceous wood fragments, friable, loosely compacted.
300-305	Sand, as 295-300 above, scattered orange and brown clay inclusions, rare slight orange staining of a few grains.
305-310	Sand, as 300-305 above.

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DEPTH	STRATIGRAPHIC DESCRIPTION
310-315	Sand, as 300-305 above
315-320	Sand, as 300-305 above, occasional dark bluish-black staining of a few grains (2-5%).
320-325	Sand, as 315-320 above, except medium to coarse grained, sub-angular, medium to poorly sorted.
325-330	Sand, as 320-325 above.
330-335	Sand, as 320-325 above.
335-340	Sand, clear, minor white, fine to coarse grained, sub-angular, poorly sorted quartz, very dirty, common light brown and scattered orange silty interstitial material (some of orange silty interstitial material is limonitic), scattered orange siderite nodule clusters and grains and angular sideritic clay fragments, rare orange staining of one or two quartz grains, loosely to moderately compacted.
340-345	Clay, medium brown, scattered medium to coarse grained quartz, scattered carbonaceous wood fragments, scattered limonitic coated nodules, medium to coarsely textured, moderately compacted.
345-350	Sand, as 295-300 above.
350-355	Clay, light, medium and dark grey scattered white and light brown lenses, scattered coarse grained quartz and silty sand stringers, scattered to common carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments and grains, medium to coarsely textured, moderately compacted
355-360	Silt, dark grey and brownish-grey, scattered white, orange and red specks and inclusions, scattered dark and medium grey clay stringers, scattered carbonaceous wood fragments, scattered fine to medium quartz grains some of which are slight orange stained, scattered reddish-brown sideritic clay inclusions and siderite nodule clusters, scattered limonitic coated ferruginous nodules, medium to coarsely textured, moderately compacted.
360-365	Clay, medium brownish-grey, rare white and orange clay inclusions, scattered limonitic coated magnetitic shale fragments, scattered carbonaceous wood fragments, scattered orange limonitic coated nodules, finely to medium textured, moderately compacted.
365-370	Clay, as 360-365 above.
370-375	Clay, as 360-365 above, common carbonaceous wood fragments.
375-380	Clay, as 360-365 above, carbonaceous wood fragments 40% coated with orange limonitic clay.
380-385	Sand, clear, fine to coarse grained, sub-angular, poorly sorted quartz and common orange siderite and sideritic clay grains and nodules, very dirty, common light brown silty interstitial material, scattered orange limonitic coated ferruginous nodules, slight orange staining of a few quartz grains, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
385-390	Clay, as 360-365 above.
390-395	Clay, as 360-365 above, rare limonitic nodules.
395-400	Clay, as 390-395 above.
400-405	Clay, medium grey scattered orange limonitic patches, scattered to common carbonaceous wood fragments, medium textured, moderately compacted.
405-410	Clay, light and medium grey and brown, scattered white silt lenses and stringers, scattered orange and pink lenses and inclusions, scattered carbonaceous wood fragments, rare black magnetitic shale fragments, slight limonitic clay patches, medium textured, moderately compacted.
410-415	Clay, as 400-405 above.
415-420	Clay, as 405-410 above, carbonaceous wood fragments, 35% also coated with orange limonitic clay.
420-425	Clay, medium grey and brown, scattered lenses and inclusions of orange and minor inclusions of white clay, scattered carbonaceous wood fragments, medium textured, moderately compacted.
425-430	Clay, as 420-425 above, 20% carbonaceous wood fragments, scattered yellow and orange limonitic nodules.
430-435	Clay, as 425-430 above, 10% carbonaceous wood fragments.
435-440	Clay, medium grey and brown, scattered orange patches, rare white inclusions, scattered carbonaceous wood fragments and coal, scattered reddish-brown sideritic clay inclusions, scattered limonitic coated, clay nodules, medium textured, moderately compacted.
440-445	Clay, as 435-440 above.
445-450	Clay, light grey, scattered orange and white inclusions, scattered carbonaceous wood fragments, scattered reddish and orange-brown sideritic clay inclusions, scattered coarse grained quartz, rare limonitic nodules, coarsely textured, moderately compacted.
450-455	Clay, as 445-450 above.
455-460	Clay, as 445-450 above, except common sideritic clay inclusions (bands?)
460-465	Clay, as 445-450 above,
465-470	Clay, as 445-450 above.
470-475	Clay, as 445-450 above.
475-480	Clay, as 455-460 above, becoming silty, scattered medium grained quartz.
480-485	Sandy Silt, medium brownish-grey, common fine to coarse grained quartz, scattered carbonaceous wood fragments, rare light brown, orange and yellow clay inclusions, very coarsely textured grading into a silty sand, moderately compacted.

BORE # 45

DEPTH	STRATIGRAPHIC DESCRIPTION
485-490	Sandy Silt, as 480-485 above, common orange patches, occasional sandy carbonaceous mud inclusions (like gilsonite).
490-495	Silty Clay, mottled, medium and dark grey and brown, orange, red, yellow and white, very coarsely textured, moderately compacted.
495-500	Silty Clay, light and medium brown, scattered white stringers and rare yellow and orange streaks, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
500-505	Silty Clay, as 495-500 above, scattered yellow limonitic coated ferruginous nodules, scattered reddish-brown sideritic clay inclusions, coarsely textured, moderately compacted.
505-510	Sandy Silt, light brown, scattered yellow and orange patches, common fine to coarse grained quartz, rare to scattered carbonaceous wood fragments, scattered reddish-brown sideritic clay inclusions, rare limonitic nodules, a few of quartz grains have slight orange staining, very coarsely textured, moderately compacted.

All samples are S 30/30/0

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BORE # 46

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Clay, medium brown, cream, pink and minor grey, common slight pink and yellow stained fine to coarse grained quartz, coarsely textured, moderately compacted.
5-10	Clay, mottled, bluish-grey, medium brown, orange-brown and minor pink, scattered light pink and yellow stained, fine to medium grained quartz, rare carbonaceous wood fragments, occasional pebbles of reddish-brown ferruginous and silicified silt.
10-15	Clay, light orange-brown, yellow, white and bluish-grey and pink stringers and streaks, common red and brown ferruginous irregular nodules, finely textured, moderately compacted.
15-20	Clay, as 10-15 above, scattered red and light purple colour.
20-25	Clay, red, orange, yellow, white, purple stringers and streaks, scattered red and dark reddish-brown ferruginous nodules and inclusions, finely textured, moderately compacted.
25-30	Clay, salmon pink, yellow, rare red and white stringers and streaks, scattered red clay inclusions and hard dark brown clay fragments, finely textured, moderately compacted.
30-35	Clay, as 25-30 above.
35-40	Clay, light fawn, yellow, orange, pink, and white stringers and streaks, scattered angular inclusions of red, dark reddish-brown and yellow hard ferruginous clay, finely textured, moderately compacted.
40-45	Clay, mottled, light brown, salmon pink, red, yellow, orange and white, minor light grey, scattered angular, medium tan ferruginous fragments and rounded ferruginous dark brown nodules, finely textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, as 40-45 above.
55-60	Clay, as 40-45 above.
60-65	Clay, mottled, light orange-brown, yellow, red, white, dark brown, medium and dark grey, finely textured, moderately compacted.
65-70	Clay, as 65-70 above, rare medium grained quartz.
70-75	Clay, as 65-70 above, scattered coarse grained quartz, rare dark brown ferruginous nodules.
75-80	Clay, as 70-75 above.
80-85	Clay, white, scattered orange and yellow stringers and patches, common red, tan and orange inclusions and lenses, rare medium grained quartz, rare carbonaceous wood fragments, finely textured, moderately compacted.
85-90	Clay, as 80-85 above.
99-95	Clay, as 80-85 above, common coarse grained clear quartz.
95-100	Clay, as 90-95 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
100-140	Missing
140-145	Clay, white to light grey, speckled with yellow, orange, red and light tan small inclusions, scattered medium to coarse grained quartz, rare small carbonaceous wood fragments, occasional reddish-brown ironstone fragments, finely textured, moderately compacted.
145-150	Clay, as 140-145 above.
150-155	Clay, as 140-145 above.
155-160	Clay, as 140-145 above.
160-165	Clay, mottled, white to light grey, orange, yellow, light tan, minor red and purple, scattered medium to coarse grained quartz, rare carbonaceous wood fragments, finely textured, moderately compacted.
165-170	Clay, as 160-165 above.
170-175	Clay, as 160-165 above.
175-180	Clay, as 160-165 above.
180-185	Clay, as 140-145 above.
185-190	Clay, as 140-145 above.
190-195	Clay, as 80-85 above.
195-200	Clay, as 60-65 above, scattered coarse grained quartz.
200-205	Clay, as 60-65 above, scattered carbonaceous wood fragments.
205-210	Clay, as 200-205 above.
210-215	Clay, as 200-205 above.
215-220	Clay, as rare dark brown ferruginous nodules.
220-225	Clay, mottled, light and medium brown, orange-brown, red orange, white, light bluish-grey, scattered carbonaceous wood fragments, scattered medium grained quartz, rare reddish-brown ferruginous nodules, finely textured, moderately compacted.
225-230	Clay, as 220-225 above.
230-235	Clay, mottled, white, light grey, light fawn, medium brown, orange, yellow, red and purple, scattered carbonaceous wood fragments, scattered limonitic coated dark brown ferruginous nodules, finely textured, moderately compacted.
235-240	Clay, as 230-235 above.
240-245	Clay, medium grey, mottled by inclusions of yellow, orange, red and white clay, scattered carbonaceous wood fragments, and matter, scattered limonitic stained dark brown ferruginous nodules, finely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
245-250	Clay, as 240-245 above.
250-255	Clay, as 240-245 above, but medium to coarsely textured, and scattered medium coarse grained quartz.
255-260	Clay, mottled, yellow, orange, white, red, purple, medium brown, scattered carbonaceous wood fragments, rare to scattered small limonitic coated ferruginous nodules, scattered coarse grained quartz, finely textured, moderately compacted.
260-265	Clay, as 255-260 above.
265-270	Clay, as 255-260 above.
270-275	Clay, as 255-260 above.
275-280	Clay, as 255-260 above.
280-285	Clay, as 255-260 above, scattered to common carbonaceous wood fragments.
285-290	Clay, as 255-260 above, common carbonaceous wood fragments 30-40%
290-295	Clay, as 280-285 above.
295-300	Clay, as 255-260 above.
300-305	Clay, as 255-260 above.
305-310	Clay, as 255-260 above.
310-320	Clay, as 255-260 above.
320-325	Clay, as 255-260 above. common angular coarse grained quartz.
325-330	Clay, as 255-260 above.
330-335	Clay, mottled, light and medium brown, orange-brown, orange, yellow, red, white, minor purple, scattered coarse grained quartz, scattered limonitic coated fragments and specks, finely textured, moderately compacted.
335-340	Clay, as 330-335 above.
340-345	Clay, as 330-335 above.
345-350	Clay, as 330-335 above.
350-355	Clay, as 330-335 above.
355-360	Clay, as 330-335 above.
360-365	Clay, as 330-335 above.
365-370	Clay, as 330-335 above.
370-375	Clay, as 330-335 above.
375-380	Clay, medium grey, scattered lenses, patches and inclusions of orange, light orange-brown, white and red clay, scattered carbonaceous wood fragments, scattered coarse to very coarse grained quartz, scattered reddish-brown sideritic clay, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
380-385	Clay, as 330-335 above.
385-390	Clay, as 330-335 above, common carbonaceous wood fragments 30% and rare dark orange-brown glassy mineral.
390-395	Clay, as 330-335 above, rare red glassy mineral.
395-400	Clay, as 330-335 above.
400-405	Clay, as 330-335 above.
405-410	Clay, as 330-335 above, common carbonaceous wood fragments 20% and common orange limonitic coated nodules
410-415	Clay, as 405-410 above.
415-420	Clay, as 330-335 above, common carbonaceous wood fragments 40%.
420-425	Clay, as 330-335 above.
425-430	Clay, as 330-335 above.
430-435	Clay, mottled, orange-brown, orange, medium brown, grey, white, yellow, rare red, scattered sideritic coated nodules, common carbonaceous wood fragments, finely textured, moderately compacted.
435-440	Clay, as 430-435 above.
440-445	Clay, as 430-435 above, but scattered carbonaceous wood fragments.
445-450	Clay, as 440-445 above.
450-455	Clay, as 440-445 above.
455-460	Clay, as 430-435 above, scattered sideritic clay fragments.
460-465	Clay, medium brown and grey, scattered orange, rare yellow, red and white stringers and inclusions, common carbonaceous wood fragments, rare angular fragments of quartz, scattered sideritic clay fragments, medium textured, moderately compacted.
465-470	Clay, as 455-460 above.
470-475	Clay, as 455-460 above, carbonaceous wood fragments makes up about 20% of the sample.
475-480	Clay, as 470-475 above.
480-485	Clay, as 460-465 above.
485-490	Clay, as 455-460 above, carbonaceous wood fragments makes up 30% of the sample.
490-495	Clay, mottled, medium grey and brown, orange-brown, orange, yellow, white, rare red and purple, common carbonaceous wood fragments, scattered yellow and orange glassy mineral, rare limonitic coated clay fragments, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
495-500	Clay, medium grey, scattered orange, yellow, white, scattered reddish-brown sideritic clay fragments, scattered carbonaceous wood fragments, scattered coarse grained, medium textured, moderately compacted.
500-505	Sandy Clay, dark brown, scattered orange lenses, common fine to medium grained quartz, common carbonaceous wood fragments, scattered reddish-brown sideritic clay fragments, coarsely textured, moderately compacted.
505-510	Sandy Clay, as 500-505 above.
510-515	Sandy Clay, as 500-505 above, but medium greyish brown and scattered limonitic coated nodules.
515-520	Carbonaceous Wood Fragments, 80%, scattered stringers of medium grey and brown clay, scattered orange-brown sideritic clay fragments.
520-525	Clay, medium grey and brown, scattered orange patches, common carbonaceous wood fragments, rare coarse grained quartz, rare orange glassy mineral? scattered orange-brown sideritic clay fragments, rare limonitic nodules, medium to coarsely textured, moderately compacted.
525-530	Carbonaceous Wood Fragments, 70%, scattered fragments of sideritic clay, limonitic coated shale fragments and nodules, scattered stringers of medium grey clay.
530-535	Carbonaceous Wood Fragments, 80% as 525-530 above.
535-540	Carbonaceous Wood Fragments, 98%, scattered orange-brown sideritic clay fragments.
540-545	Carbonaceous Wood Fragments, 65%, as 525-530 above.
545-550	Carbonaceous Wood Fragments, 100%,
550-555	Carbonaceous Wood Fragments, 90%, scattered medium to dark grey and minor yellow and orange clay.
555-560	Carbonaceous Wood Fragments, as 550-555 above.
560-565	Carbonaceous Wood Fragments, as 550-555 above.
565-570	Carbonaceous Wood Fragments, 75%, as 550-555 above.
570-575	Carbonaceous Wood Fragments, 70%, as 550-555 above.
575-580	Silty Clay, medium brown and orange-brown, orange and medium grey, common carbonaceous wood fragments (50%), coarsely textured, moderately to loosely compacted.
580-585	Silty Clay, as 575-580 above.
585-590	Silty Clay, as 580-585 above.
590-595	Silty Clay, as 580-585 above.
595-600	Silty Clay, light to medium brown, scattered orange patches, common carbonaceous wood fragments (30%), scattered orange-grown sideritic clay fragments, scattered limonite nodules coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
600-605	Carbonaceous Wood Fragments, 85%, scattered clay, brown, red and cream.
605-610	Silt, medium brown, common fine to medium grained quartz, scattered to common carbonaceous wood fragments, coarsely textured, moderately to loosely compacted.
610-615	Carbonaceous Wood Fragments, 90%, scattered medium brown and orange clay.
615-620	Carbonaceous Wood Fragments, 95%, scattered medium brown and orange clay.
620-625	Carbonaceous Wood Fragments, 75%, clay medium brown with orange patches, scattered orange-brown sideritic clay fragments, coarsely textured.
625-630	Silt, as 605-610 above, common carbonaceous woods 50%.
630-635	Carbonaceous Wood Fragments, as 620-625 above.
635-640	Carbonaceous Wood Fragments, 85%, clay, medium grey and brown, scattered orange patches, scattered orange-brown sideritic clay fragments, medium textured, moderately compacted.
640-645	Carbonaceous Wood Fragments, 85%, as 635-640 above.
645-650	Carbonaceous Wood Fragments, 85%, as 635-640 above.
650-655	Carbonaceous Wood Fragments, 85%, as 635-640 above.
655-660	Carbonaceous Wood Fragments, 70%, as 635-640 above.
660-665	Clay, medium brown, common orange patches, scattered and inclusions, scattered reddish-brown sideritic clay fragments, scattered carbonaceous wood fragments, medium textured, moderately compacted.
665-670	Clay, as 660-665 above, common carbonaceous wood fragments 30%.
670-675	Clay, as 665-670 above.
675-680	Clay, as 660-665 above, carbonaceous wood fragments 60%.
680-685	Clay, medium brown and grey, common orange patches and inclusions, minor white stringers, scattered reddish-brown sideritic clay fragments, common carbonaceous wood fragments 50%, medium textured, moderately compacted.
685-690	Clay, as 680-685 above, becoming silty and sandy.
690-695	Carbonaceous Wood Fragments, 80%, silt light to medium brown, scattered orange patches, scattered fine to medium grained quartz, some of which has a limonitic coating, rare mica, coarsely textured, moderately to loosely compacted.
695-700	Carbonaceous Wood Fragments, 90%, silt as in 690-695 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
700-705	Sand, clear, light brown, minor white, very fine to fine grained, sub-angular, medium to well sorted quartz, dirty, scattered light brown and orange silty interstitial material scattered coarse grains, carbonaceous wood fragments make up 50% of the sample, loosely compacted.
705-710	Sand, clear, rare light brown, and white, fine grained, sub-angular, well sorted quartz, clean, rare white to light brown silty interstitial material, common fine grained reddish-brown siderite nodules and grains, rare limonite fragments, scattered carbonaceous wood fragments (cavings?), friable, loosely compacted.
710-715	Carbonaceous Wood Fragments, 100%
715-720	Carbonaceous Wood Fragments, 100%
720-725	Carbonaceous Wood Fragments, 80%, silt as in 690-695 above.
725-730	Carbonaceous Wood Fragments, 75%, silt as in 690-695 above.
730-735	Carbonaceous Wood Fragments, 90%, clay light to medium grey and brown with scattered yellow and orange stringers.
735-740	Carbonaceous Wood Fragments, 70%, silt as in 690-695 above.
740-745	Carbonaceous Wood Fragments, 85%, clay as in 690-695 above.
745-750	Carbonaceous Wood Fragments, 80%, clay as in 690-695 above.

For all samples S 32/32/0

BORE # 49

Q47/1 73-939

692204

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, medium orange-brown, orange, yellow, white stringers and lenses, coarsely textured, moderately compacted.
5-10	Clay, as 0-5 above, scattered angular inclusions of dark brown clay, scattered to rare medium grains of quartz, scattered coarse grains and nodules of dark brown to black ferruginous shale? (could be broken rusty drill pipe?).
10-15	Clay, orange, minor white stringers, scattered, medium orange-brown, and dark brown ferruginous clay nodules, rare carbonaceous fragments.
15-20	Clay, as 10-15 above.
20-25	Clay, as 10-15 above.
25-30	Clay, as 10-15 above.
30-35	Clay, as 10-15 above.
35-40	Clay, as 10-15 above.
40-45	Clay, medium brown, orange, minor white, stringers rare carbonaceous specks, finely textured, moderately compacted.
45-50	Clay, as 40-45 above, scattered angular inclusions of brown, orange, salmon pink, clay, scattered brown nodules.
50-55	Clay, medium brown, orange-brown, white stringers, finely textured, well compacted.
55-60	Clay, dark brown, orange, pink, yellow-brown, white stringers and lenses and streaks, finely-medium textured, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, as 55-60 above, except predominant chocolate brown.
70-75	Clay, as 65-70 above.
75-80	Clay, as 65-70 above.
80-85	Clay, medium to dark brown, orange, white stringers and streaks, rare quartz grains inclusions, finely-medium textured, moderately compacted.
85-90	Clay, as 80-85 above.
90-95	Clay, as 80-85 above.
95-100	Clay, as 80-85 above.
100-105	Clay, dark grey, rare light brown stringers, finely textured, well compacted.
105-110	Clay, as 80-85 above.
110-115	Clay, as 100-105 above.

CONT/...

DEPTH	STRATIGRAPHIC DESCRIPTION
115-120	Clay, as 100-105 above.
120-125	Clay, as 100-105 above.
125-130	Clay, as 100-105 above.
130-135	Clay, as 100-105 above.
135-140	Clay, as 100-105 above, scattered finely divided mica.
140-145	Clay, as 135-140 above.
145-150	Clay, as 135-140 above.
150-155	Clay, as 135-140 above.
155-160	Clay, medium brown, orange, rare white silt streaks, scattered carbonaceous wood fragments and matter, medium-coarsely textured, moderately compacted.
160-165	Clay, as 155-160, except carbonaceous matter is common.
165-170	Sandy clay, medium brown, minor light brown and orange stringers, scattered carbonaceous matter, common fine-medium grains of quartz set in silty and clayey matrix, coarsely textured, moderately compacted.
170-175	Sandy clay, as 165-170 above.
175-180	Clay, medium brown, minor white and orange stringers, scattered carbonaceous fragments, rare mica, scattered purplish brown and brown-black ferruginous inclusions and nodules, coarsely textured, moderately compacted.
180-185	Clay, as 175-180 above.
185-190	Clay, medium greyish-brown, rare white streaks, rare reddish-brown nodules, fine-medium textured, moderately compacted.
190-195	Clay, medium to dark grey, minor white stringers, rare mica, rare orange inclusions, finely textured, moderately compacted.
195-200	Clay, as 190-195 above.
200-210	Clay, as 190-195 above.
210-215	Clay, as 190-195 above.
215-220	Clay, as 190-195, scattered medium orange-brown small nodules (limonite?).
220-225	Clay, medium grey, scattered white, yellow streaks, scattered reddish brown nodules and inclusions, rare carbonaceous blebs, rare finely divided mica, coarsely textured, moderately compacted.
225-230	Clay, as 220-225 above.

cont/...

DEPTH	STRATIGRAPHIC DESCRIPTION
230-235	Clay, medium grey, rare orange streaks, rare finely divided carbonaceous specks, occasional reddish-brown clay pebble inclusions, medium-coarsely textured, well compacted. of siderite clay.
235-240	Clay, as 230-235 above, rare white and light brown silt stringers.
240-245	Clay, medium grey, scattered yellow and orange inclusions and streaks, occasional reddish-brown inclusions.
245-250	Clay, as 240-245 above.
250-255	Clay, medium greyish-brown, orange, yellow, white stringers, rare minute carbonaceous fragments, rare reddish brown grains of quartz, finely-medium textured, well compacted.
255-260	Clay, medium to dark brown, rare orange streaks, rare mica, rare reddish brown nodules, rare brown-black ferruginous shale plates, finely-medium textured, moderately compacted.
260-265	Clay, light grey to white and orange stringers, rare finely divided carbonaceous specks and fragments, scattered red-brown nodules (siderite).
265-270	Clay, light grey, rare carbonaceous specks, scattered to common, reddish-tan and occasional clear quartz, fine-medium grains, rare mica, medium-coarsely textured, moderately compacted.
270-275	Clay, as 275-280 above.
275-280	Clay, as 275-280 above, minor orange streaks.
280-285	Clay, as 275-280 above.
285-290	Clay, as 275-280 above, except light-medium grey.
290-295	Clay, medium grey, orange, yellow, white inclusions and stringers, scattered to common purplish and reddish-brown aggregates of siderite grains, medium textured, moderately compacted.
295-300	Clay, light-medium grey, common orange-brown and reddish-brown aggregates and grains of siderite, rare carbonaceous wood fragments.
300-305	Clay, medium grey, as 295-300 above.
305-310	Clay, as 295-300 above.
310-315	Clay, as 295-300 above, occasional reddish, orange and purplish brown ferruginous (?) plates.
315-320	Clay, medium, brown, light brown, light grey, minor orange stringers, scattered reddish-brown siderite aggregates, medium-coarsely textured, moderately compacted.

cont/...

DEPTH	STRATIGRAPHIC DESCRIPTION
320-325	Silty sand, clear, light brown, rare reddish brown, very finely grained, sub-angular, medium to well sorted, quartz very dirty, common light brown and white silty and clayey interstitial material, rare purplish red nodules, moderately to loosely compacted.
325-330	Sandy clay, medium brown, scattered orange, trace white stringers, common clear, light brown, pink and reddish-brown quartz grains, occasional reddish-brown ferruginous shale plates.
330-335	Silty sand, as 320-325 above.
335-340	Clay, light and medium grey stringers, scattered carbonaceous fragments, scattered light tan and reddish brown grains and aggregates of siderite, scattered purplish and reddish-brown, limonitic clay inclusions, medium textured, moderately compacted.
340-345	Clay, white to light grey, scattered light tan and reddish-brown aggregates of siderite, scattered angular inclusions of reddish and orange dark tan limonitic shale, occasional ferruginous shale plates.
345-350	Clay, as 340-345 above.
350-360	Missing.
360-365	Clay, light grey and dark greyish brown stringers, rare purplish-brown lenses, and rare yellow small inclusions, rare carbonaceous specks, occasional reddish-brown siderite aggregates, medium textured, well compacted.
365-370	Clay, light grey, clear quartz grains, medium textured, well compacted.
370-375	Clay, as 365-370 above.
375-380	Clay, light and medium grey stringers, scattered light brown and clear quartz grains, rare carbonaceous specks, medium textured, moderately compacted.
380-385	Silty sand, clear, light brown, reddish-brown, very fine to finely grained, sub-angular, medium-poorly sorted, quartz, very dirty common light brown and minor white silty interstitial material, scattered carbonaceous wood fragments, rare mica, loosely to moderately compacted.
385-390	Clay, light to medium grey, rare orange lenses and inclusions, scattered reddish-brown siderite grains and aggregates, scattered small carbonaceous wood fragments, rare mica, medium-coarsely textured, moderately compacted.
390-395	Clay, as 385-390 above.
395-400	Missing.

cont/...

153

DEPTH	STRATOGRAPHIC DESCRIPTION
400-405	Clay, medium, greyish brown, scattered clear and reddish brown quartz grains and aggregates, scattered stringers of silt and fine-ground sand containing reddish-brown and orange and clear siderite set in bright orange silty matrix , scattered black ferruginous plates which are magnetic (magnetite).
405-410	Clay as 385-390 above.
410-415	Missing
415-420	Clay, medium-grey, scattered clear, occasional smokey, pink coarse grains of quartz, scattered lenses of orange silt and fine-ground sand, rare black ferruginous platey shale, medium-coarse texture, moderately compacted
420-425	Sandy clay, medium grey, rare white and yellow inclusion and lenses, common clear orange medium-coarse grains of quartz, scattered carbonaceous wood fragments, loosely to moderately compacted, coarse-textured.
425-430	Sandy clay, as 420-425 above.
430-435	Sandy clay, as 420-425 above, quartz grains are less common, scattered orange and black platey magnetite.
435-440	Missing
440-445	Clay, medium greyish-brown, scattered rusty-brown and yellow inclusions and lenses, common carbonaceous wood fragments and matter, scattered clear and reddish-brown quartz grains and siderite aggregates, rare mica, medium-coarse texture, moderately compacted.
445-450	Clay as 440-445 above, scattered black and rusty-orange platey magnetite, medium texture, moderately compacted.
450-455	Clay as 440-445 above.
455-460	Clay as 445-450 above.
460-470	Missing
470-475	Clay, light, medium and dark grey stringers, scattered clear and reddish-brown siderite grains and aggregates, medium texture, well compacted.
475-480	Clay as 470-475 above, quartz less common.
480-485	Clay as 470-475 above, scattered platey magnetite, scattered carbonaceous wood fragments.
485-490	Clay as 480-485 above.
490-495	Clay as 470-475 above, platey magnetite.
495-500	Clay, medium to light grey, scattered inclusions of limonitic clay fragments, medium texture, moderately compacted.

All samples S/38/38/0

154

Q471 73-139

BORE # 50

692209

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sandy Siltstone, light brown, minor yellow common very fine to fine grained quartz, coarsely textured, loosely to moderately compacted.
5-10	Clay, light grey, minor orange, scattered fine grains of light brown and orange quartz, rare carbonaceous wood fragments, medium textured, moderately compacted.
10-15	Clay, as 5-10 above.
15-20	Sand, light to medium brown and grey, white and clear, fine to medium grained, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common white clayey and light brown silty interstitial material, common stringers of white clay, scattered carbonaceous wood fragments and carbonaceous matter, scattered dark brown and tan iron nodules, scattered orange silt, loosely compacted.
20-25	Silt, medium brown, yellow, orange, common coarse grains, grey, brown, orange quartz, scattered well rounded grey pebbles up to 1/8" diametre of clay, rare black carbonaceous specks, coarsely textured, moderately compacted.
25-30	Dolerite ?, sand broken pieces of dark brown and black mineral, sometimes weathered, scattered pieces of yellow and orange silt, orange waxy clay, common orange, yellow and brown stained quartz.
30-35	As 25-30 above except common stringers of white clay.
35-40	Sand, light medium brown, orange, yellow, black fine-coarse grained, sub-angular, poorly sorted, igneous rock (dolerite?) and minor quartz, set in light brown silty interstitial material, loosely compacted.
40-45	Sand, as 35-40 (looks like "dolerite wash").
45-50	Sand, as 35-40 (looks like "dolerite wash").
50-55	Sand, as 35-40 (looks like "dolerite wash").
55-60	Dolerite, dark grey, weather, often orange silty coating.
60-65	Dolerite, weathered.
65-70	Dolerite, weathered, occasional quartzite pieces.
70-260	Dolerite.

/ All samples : S35/35/0

Q47/1 73-939

155

BORE # 51

692210

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light grey, scattered orange limonitic clay inclusions, scattered fine grains of clear and light brown quartz, medium texture; loosely to moderately compacted.
5-10	Clay, orange, minor light grey, pink and white stringers and inclusions, scattered orange glassy quartz inclusions, scattered hard iron stone (reddish-brown) nodules, finely textured, moderately compacted.
10-15	Clay, as 5-10 above, waxy appearance.
15-20	Clay, yellow, orange, minor light grey, scattered dark brown ferruginous angular pebbles, finely textured, moderately compacted.
20-25	Silt, orange, scattered white stringers and lenses and minor light grey clay lenses, coarsely textured, loosely to moderately compacted.
25-30	Sand, clear, yellow, light brown, orange, pink, finely grained, sub-angular, medium-sorted quartz, very dirty, common orange and minor white silty interstitial material, rare black mica with metallic lustre, friable, loosely compacted.
30-35	Sandy Silt, orange, white stringers, common finely grained clear and yellow quartz, scattered ferruginous red-brown shale inclusions.
35-40	Clay, dark brown, scattered yellow and orange silty lenses, finely to coarsely textured, moderately compacted.
40-45	Clay, as 35-40 above, scattered white, yellow and fawn clay stringers.
45-50	Clay, as 35-40 above.
50-55	Clay, medium to dark chocolate brown with minor orange inclusions. medium textured, moderately compacted.
55-60	Clay, mottled dark, medium and light brown, bright orange, yellow, white, minor red, rare nodules showing zonal colouring, medium textured, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, as 55-60 above.
70-75	Clay, as 55-60 above.
75-80	Clay, as 55-60 above, becoming silty.
80-85	Clayey Silt, mottled as 55-60 above, common multi-coloured inclusions.
85-90	Clayey Silt, as 80-85 above.
90-95	Sandy Silt, light brown, white, common fine to coarsely grained, sub- angular clear quartz and multi-coloured clay inclusions set in silt matrix, coarsely textured, loosely compacted.
95-100	Sandy Silt, as 90-95 above.
100-105	Sandy Silt, as 90-95 above.

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DEPTH	STRATRIGRAPHIC DESCRIPTION
105-110	Silty Sand, clear, light brown, white, fine to medium grained, sub-angular, poorly sorted quartz, extremely dirty, common light brown and white silty interstitial material, scattered grey shale inclusions, rare rusty staining of quartz and silty interstitial material, loosely compacted.
110-115	Silty Sand, as above, except medium to coarsely grained, scattered rusty orange staining of about 5% of quartz grains.
115-120	Sand, clear, light brown, minor yellow, medium grained, sub-angular to sub-rounded, medium sorted quartz, very dirty, common brown interstitial material, scattered purplish grey clay inclusions, scattered reddish-brown siderite nodules or agregates, rare to scattered carbonaceous fragments, friable, loosely compacted.
120-125	Clay and Sand Stringers, the clay is dark brown and minor orange and white. The sand is as 105-110 above, scattered carbonaceous wood fragments.
125-130	Clay, dark brown, light tan, white, minor orange, scattered fine to medium grained clear and light brown quartz, scattered carbonaceous wood fragments, medium textured, moderately compacted.
130-135	Clay, light grey minor orange and dark grey, scattered carbonaceous fragments, scattered coarse grains of clear quartz, coarsely textured, moderately compacted.
135-140	Clay, as 130-135 above, but very silty.
140-145	Silty Sand, clear, light brown, minor yellow, finely to coarsely grained, sub-angular, poorly sorted quartz, very dirty common light brown, white, yellow, silty and clay interstitial material, common inclusions of grey, orange and white clay, scattered carbonaceous wood fragments, loosely to moderately compacted.
145-150	Silty Sand, as 140-145 above.
150-155	Sand, clear, light brown, yellow, minor orange, medium-grained, sub-angular, medium sorted quartz, dirty, common light brown and white silty interstitial material, common yellow and orange clay inclusions and stringers, friable, loosely compacted.
155-160	Clay, mottled light brown, yellow, orange, light grey, white and minor dark brown, finely to medium textured, moderately compacted.
160-165	Clay, as 155-160 above
165-175	Missing
175-180	Clay, as 155-160 above, common carbonaceous stringers and wood fragments.
180-185	Clay, as 175-180 above.
185-190	Clay, dark, medium and light brown, white, yellow, orange stringers and streaks, common carbonaceous wood fragments, finely to medium textured, moderately compacted.

.....over/

DEPTH	STRATIGRAPHIC DESCRIPTION
190-195	Clay, dark brown, orange, yellow, minor white, light grey and red stringers, scattered carbonaceous (black) clay inclusions. Waxy in appearance.
195-200	Clay, as 190-195 above.
200-205	Clay, as 190-195 above.
205-210	Clay, as 190-195 above.
210-215	Clay, as 190-195 above.
215-220	Clay, as 190-195 above.
220-225	Clay, as 190-195 above.
225-230	Clay, as 190-195 above, scattered carbonaceous wood fragments.
230-235	Clay, medium brown and light tan, minor yellow and orange, scattered carbonaceous wood fragments, medium textured, moderately compacted.
235-240	Clay, dark, medium brown, black carbonaceous clay, white, minor yellow and orange, medium textured, moderately compacted.
240-245	Missing
245-250	Clay, as 235-240 above
250-255	Missing
255-260	Carbonaceous Wood Fragments and black carbonaceous clay, rare yellow and orange clay inclusions.
260-265	Carbonaceous Wood Fragments, as 255-260 above.
265-270	Carbonaceous Wood Fragments, and scattered medium brown, white, light grey, yellow and orange clay.
270-275	Clay, medium light brown or yellow and white stringers, common carbonaceous wood fragments, medium to coarsely textured, loosely compacted.
275-280	Clay, dark, medium, light brown, scattered orange, yellow and white stringers and lenses, rare carbonaceous wood fragments, coarsely textured, moderately compacted.
280-285	Clay, as 275-280, rare medium grained clear quartz.
285-290	Clay, as 275-280 above.
290-295	Clay, as 275-280 above, except scattered carbonaceous wood fragments.
295-300	Clay, as 290-295 above.
300-305	Clay, as 290-295 above.
305-310	Clay, as 290-295 above.
310-315	Clay, as 290-295 above, rare to scattered medium tan limonitic clay pebbles.

..... over/

DEPTH	STRATIGRAPHIC DESCRIPTION
315-320	Missing
320-325	Clay, as 290-295 above
325-330	Clay, as 290-295 above and scattered to common carbonaceous wood fragments and carbonaceous mud.
330-335	Clay, medium grey, yellow stringers, scattered to common carbonaceous matter and wood fragments, medium textured, moderately compacted.
335-340	Missing
340-345	Clay, medium and dark grey, minor white stringers, scattered carbonaceous wood fragments and blebs, medium textured, moderately compacted.
345-350	Clay, as 340-345 above, minor brown silt stringers
350-355	Missing
355-360	Clay, medium grey, white stringers, scattered medium grained, sub-rounded, clear quartz, occasional orange glassy mineral, rare carbonaceous wood fragments, finely to medium textured, moderately compacted.
360-365	Clay, medium greyish-brown, white, orange, yellow lenses and inclusions, scattered carbonaceous wood fragments and carbonaceous matter, scattered medium tan siderite clusters, finely to medium textured, moderately compacted.
365-370	Clay, mottled, medium grey, brown, orange, yellow, white, scattered light brown silt stringers and fine grained sand, scattered orange quartz clusters, occasional orange brittle glassy mineral with uneven fracture, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
370-375	Clay, medium dark and light brown stringers, common white, yellow and orange lenses, streaks and inclusions, scattered medium brown silt stringers, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
375-380	Clay, medium brown, yellow and white, orange, red stringers, lenses and inclusions, scattered carbonaceous wood fragments, scattered orange quartz clusters, finely to medium textured, moderately compacted.
380-385	Clay, as 375-380 above, rare coarsely-grained clear rounded quartz.
385-390	Clay, medium to dark brown, white, minor yellow, orange and red lenses and inclusions, scattered carbonaceous wood fragments, occasional orange clear glassy mineral, scattered silt stringers, coarsely textured, moderately compacted.
390-395	Clay, medium grey, white, yellow and orange stringers lenses and inclusions, scattered carbonaceous wood fragments, yellow clear brittle glassy mineral, scattered red-brown clay fragment inclusions, medium textured, moderately compacted.
395-405	Missing

.....over/

DEPTH	STRATIGRAPHIC DESCRIPTION
405-410	Clay, medium grey, scattered and common carbonaceous wood fragments, occasional orange clear glassy brittle mineral, medium textured, moderately compacted.
410-415	Clay, as 405-410 above, no glassy mineral, scattered reddish-brown coated hard orange clay inclusions, gives off slow bubbles in hydrochloric acid when heated (siderite)
415-420	Clay, medium to dark greyish brown, minor yellow, orange and white lenses, scattered orange silt lenses, common carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
420-425	Missing
425-430	Clay, as 415-420 above.
430-435	Clay, as 415-420 above, some minor pink tinges.
435-440	Clay, medium brown, scattered white lenses, scattered carbonaceous wood fragments, rare orange quartz clusters, rare magnetitic shale plates, coarsely textured, moderately compacted.
440-445	Clay, as 435-440 above, scattered yellow and orange glassy mineral.
445-450	Clay, as 435-440 above.
450-455	Clay, medium and dark brown, white stringers, scattered orange and yellow lenses and inclusions, scattered carbonaceous wood fragments medium textured, moderately compacted.
455-460	Clay, as 450-455 above, common carbonaceous wood fragments, scattered reddish-brown siderite clay, angular inclusions, coarsely textured, moderately compacted.
460-480	Missing
480-485	Clay, medium to dark brown, stringers, scattered orange, red and rare yellow lenses and inclusions, scattered light brown silt stringers, occasional very coarsely grained, sub-rounded quartz, scattered carbonaceous wood fragments, angular inclusions of sideritic clay.
485-490	Missing
490-495	Clay, as 480-485 above.
495-555	Missing
555-560	Clay, medium to dark grey, common carbonaceous wood fragments, coarsely textured, moderately compacted.
560-565	Clay, as 555-560 above, rare yellow silt inclusions.
565-570	Clay, as 555-560 above.
570-575	Clay, dark greyish brown, scattered carbonaceous wood fragments, medium textured, moderately compacted.
575-580	Clay, medium to dark greyish brown, rare orange inclusions, common carbonaceous wood fragments, scattered orange glassy mineral, medium-textured, moderately compacted.
580-585	Clay, as 575-580 above

over/

DEPTH	STRATIGRAPHIC DESCRIPTION
585-590	Clay, medium greyish brown, rare orange inclusions, scattered carbonaceous wood fragments, rare reddish-brown siderite clay angular inclusions.
590-595	Clay, as 585-590 above.
595-600	Missing.
600-605	Clay, as 585-590 above.
605-610	Clay, medium grey, orange, rare black stringers, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
610-615	Clay, medium grey, rare orange lenses and inclusions, one piece of grey clay shows a bluish-purple and bluish-green stain (may be vivianite?), scattered brown and reddish-brown sideritic clay, angular inclusions, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
615-620	Clay, medium grey, scattered carbonaceous wood fragments, rare sideritic angular inclusions, finely to medium textured, moderately compacted.
620-625	Clay, medium to light brown, scattered orange lenses, scattered reddish-brown, sideritic clay angular inclusions (may be bands broken up by the drill), scattered carbonaceous wood fragments, medium-textured, moderately compacted.
625-635	Missing
635-640	Clay, medium and dark grey, scattered orange lenses, occasional reddish-brown, angular sideritic clay inclusions, scattered carbonaceous wood fragments, rare mica, medium textured, moderately compacted.
640-660	Missing
660-665	Clay, as 635-640 above
665-670	Clay, as 635-640 above
670-675	Clay, as 635-640 above.
675-680	Clay, as 635-640 above
680-685	Clay, as 635-640 above
685-690	Clay, as 635-640 above, scattered orange glassy mineral, scattered fawn silt stringers.
690-695	Clay, as 635-640 above.
695-700	Clay, as 635-640 above, rare orange silt lenses.
700-705	Clay, as 635-640 above, minor white streaks
705-710	Clay, dark grey, minor orange streaks and inclusions, common carbonaceous wood fragments, medium-textured, moderately compacted.
710-725	Missing

.....over/

DEPTH	STRATIGRAPHIC DESCRIPTION
725-730	Clay, light and medium grey, stringers, scattered to common carbonaceous wood fragments, rare yellow glassy mineral, rare yellow fibrous mineral? rare mica, rare to scattered reddish-brown angular sideritic clay inclusions.
730-735	Clay, as 725-730 above
735-740	Clay, as 725-730 above
740-745	Clay, medium grey, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
745-750	Clay, as 740-745 above.
750-755	Clay, medium grey, rare yellow specks and inclusions, common carbonaceous wood fragments and matter, medium textured, moderately compacted.
755-760	Clay, as 750-755 above, scattered white silt stringers.
760-765	Clay, as 750-755 above.
765-770	Clay, as 750-755 above.
770-775	Clay, as 750-755 above.
775-780	Clay, as 750-755 above.
780-790	Missing
790-795	Clay, medium greyish brown, rare orange specks, common carbonaceous wood fragments, medium textured, moderately compacted.
795-800	Clay, as 790-795 above.
800-805	Clay, as 790-795 above.
805-810	Missing
810-815	Clay, as 790-795 above, rare very finely grained sand streaks.
815-825	Missing
825-830	Clay, as 790-795 above.
830-835	Clay, as 790-795 above.
835-840	Clay, as 790-795 above (carbonaceous wood fragments 50%)
840-845	Missing
845-850	Carbonaceous Wood Fragments, and peat and clay as 790-795.
850-855	Carbonaceous Wood Fragments, and peat and clay as 790-795.
855-860	Clay, medium greyish brown, minor orange and yellow and white stringers, lenses, common carbonaceous wood fragments, scattered reddish-brown angular sideritic clay inclusion, scattered very finely grained orange glassy mineral.
860-865	Clay, as 855-860 above.

.....over/

DEPTH	STRATIGRAPHIC DESCRIPTION
865-870	Clay, as 855-860 above
870-875	Clay, as 855-860 above, except no sideritic clay inclusion, rare lense of bluish-silver-grey mineral with metallic lustres? Rare finely divided mica.
875-885	Missing
885-890	Clay, medium brown, rare yellow, orange and red specks and inclusions, common carbonaceous wood fragments, medium textured, moderately compacted.
890-895	Clay, as 885-890 above.
895-900	Clay, as 885-890 above, rare white streaks
900-905	Clay, as 885-890 above, rare orange silt lense.
905-910	Missing
910-915	Clay, as 885-890 above
915-920	Clay, as 885-890 above
920-925	Clay, as 885-890 above
925-930	Carbonaceous Wood Fragments and clay as 885-890 above.
930-935	Carbonaceous Wood Fragments and clay as 885-890 above.
935-940	Carbonaceous Wood Fragments and clay as 885-890 above.
940-945	Carbonaceous Wood Fragments and clay as 885-890 above.
945-950	Missing
950-955	Carbonaceous Wood Fragments 75% and clay, medium grey, scattered specks and inclusions of yellow and orange clay, medium textured, moderately compacted.
955-960	Carbonaceous Wood Fragments, etc, as 950-955 above.
960-965	Carbonaceous Wood Fragments, etc, as 950-955 above.
965-970	Carbonaceous Wood Fragments, 50%, etc., as 950-955 above.
970-975	Carbonaceous Wood Fragments, 60%, etc., as 950-955 above.
975-980	Carbonaceous Wood Fragments, 75%, etc., as 950-955 above.
980-985	Carbonaceous Wood Fragments, 75%, etc., as 950-955 above.
985-990	Carbonaceous Wood Fragments, 80%, etc., as 950-955 above.
990-995	Carbonaceous Wood Fragments, 80%, etc., as 950-955 above.
995-1000	Carbonaceous Wood Fragments, 80%, etc., as 950-955 above.

..... over/

DEPTH	STRATIGRAPHIC DESCRIPTION
1000-1005	Carbonaceous Wood Fragments, 50%, clay, medium grey, rare pink, red and yellow specks and inclusions, medium textured, moderately compacted.
1005-1010	Carbonaceous Wood Fragments, 50% and clay, medium grey, medium textured, moderately compacted.
1010-1012	Missing.

Q47(1 73-439

BORE No.60

164

692219

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Pebbly sand, clear, white, brown, fine to coarsely grained, sub-angular, poorly sorted quartz, dirty, common white and brown silty interstitial material, scattered carbonaceous material, minor brown silt stringers, loosely compacted, scattered white and rose quartz pebbles up to 1" diameter.
5-10	Sand, clear, light orange to brown, medium grained, sub-angular, medium to poorly sorted quartz, dirty, common brown and white silty interstitial material, rare to scattered minute carbonaceous fragments, occasional pebbles 1/10" diameter.
10-15	Silty clay, light grey, white and yellow, scattered orange silt, medium textured, moderately compacted.
15-20	Clay, white to very light grey, minor yellow and orange, occasional quartz grains, fine to medium textured, moderately compacted.
20-25	Clay, as 15-20 above, but slightly silty.
25-30	Clay, medium, brown, orange, light grey and yellow, finely textured, moderately compacted.
30-35	Clay, medium brown and orange, slightly silty, medium to coarsely textured, moderately compacted.
35-40	Clay, medium brown and orange, finely textured, moderately compacted.
40-45	Clay, as 35-40 above, scattered orange silt.
45-50	Clay, yellow and brown, finely textured, moderately compacted, scattered dark brown clay fragments and rare quartz grains, occasional white and yellow silt stringers.
50-55	Clay, light grey and orange, scattered inclusions of dark brown and yellow, sub-angular clay fragments, occasional very finely grained quartz.
55-60	Clay, as 50-55 above.
60-65	Clay, light grey, brown, orange, minor white, occasional dark brown clay grains, medium textured, moderately compacted, rare to scattered quartz.
65-70	Clay, as 60-65 above.
70-75	Clay, as 60-65 above.
75-80	Clay, as 60-65 above.
80-155	Missing as samples were too "sloppy".
155-160	Clay, dark brown, occasional finely grained quartz inclusions.
160-165	Clay, as 155-160 above, slight orange.colouring.
165-170	Clay, as 160-165 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
170-175	Clay, dark brown, scattered white silt patches, occasional orange clay inclusions, medium to coarsely textured, moderately compacted.
175-180	Clay, as 170-175 above.
180-185	Clay, as 170-175 above, no silt.
185-190	Clay, as 170-175 above, no silt.
190-195	Clay, medium to dark brown, scattered white silty patches, scattered fine grains of quartz, coarsely textured, loosely to moderately compacted.
195-200	Silty clay, medium brown, scattered orange, minor quartz, weathered igneous materials as inclusions, coarsely textured, moderately compacted.
200-205	Silty clay, as above except inclusions of quartz, grey and brown clay more common.
205-210	Silty clay, medium brown, scattered stringers of grey and green silt, rare to scattered quartz, coarsely textured, moderately compacted.

All samples : S/35/35/0

166

Q47|1 73-939

BORE # 61

692221

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light grey, white, yellow, orange, scattered tan and pink clay stringers, rare carbonaceous matter, scattered fine-grained clear, yellow and pink quartz, coarsely textured, loosely compacted.
5-10	Clayey Silt as 0-5 above, common white clay matrix.
10-15	Clayey Silt, white, scattered carbonaceous wood fragments, medium textured, loosely compacted.
15-20	Clayey Silt, white, occasional scattered yellow and rare orange stringers, scattered carbonaceous wood fragments, medium textured, loosely to moderately compacted.
20-25	Clayey Silt, orange, yellow and white stringers, medium textured, loosely to moderately compacted.
25-30	Clayey Silt, as 20-25 above, common tan and dark brown, inclusions, lenses and stringers of clay and scattered yellow-brown ferruginous ? inclusions, medium textured, loosely to moderately compacted.
30-35	Clay, as 25-30 clay silt above.
35-40	Clay, as 30-35 above.
40-45	Clay, as 30-35 above.
45-50	Clay, as 30-35 above.
50-55	Clayey Silt, as 25-30 above, occasional inclusion of carbonaceous matter.
55-60	Silty clay, light brown, yellow, orange, rare purple streaks, scattered black coal fragments, rare mica, coarsely textured, moderately compacted.
60-65	Silty Clay, white, yellow, orange, scattered medium tan clay inclusions, rare scattered coal fragments, scattered coarse grains and pebbles of light brown quartz, scattered fragments ferruginous ? shale. (sideritic)
65-70	Silty Clay, as 60-65 above.
70-75	Silty clay, as 60-65 above.
75-80	Clay, orange, yellow, white stringers, rare medium brown inclusions, coarsely textured, moderately compacted.
80-85	Clay, as 75-80 above plus grey scattered medium yellowish brown clay inclusions.
85-90	Clay, light grey, fawn dark brown, yellow orange stringers and inclusions, scattered white and orange silt stringers, medium textured, moderately compacted.

cont/....

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Clay, white, yellow, orange, medium brown, stringers and streaks, occasional silty patches, medium textured, moderately compacted.
95-100	Silt, yellow, orange, white, minor dark brown stringers and streaks.
100-105	Interbedded silt and clay, orange, yellow, white, brown, grey, stringers and streaks, scattered carbonaceous wood fragments, rare mica, medium-coarsely textured, moderately compacted.
105-110	Interbedded silt and clay, as 100-105 as above.
110-115	Interbedded silt and clay, as 100-105.
115-120	Interbedded silt and clay, as 100-105.
120-125	Interbedded silt and clay, as 100-105.
125-160	Missing.
160-165	Clay, light-medium grey, minor streaks of brown and orange, common dark brown to black carbonaceous matter, medium textured, well compacted.
165-170	Clay, medium brown, grey, scattered orange and yellow streaks, scattered carbonaceous fragments, medium textured, moderately compacted.
170-175	Clay, as 165-170.
175-180	Clay, medium brown, orange, yellow, white, stringers, medium textured, moderately compacted.
180-185	Clay, 175-180 above.
185-190	Clay, medium brown, orange streaks and tinges, scattered lenses and stringers of white silt, medium-coarsely textured, moderately compacted.
190-195	Clay, as 185-190 above.
195-200	Clay, medium grey, brown, orange, yellow white stringers, medium-coarsely textured, moderately compacted.
200-210	Clay, medium brown, grey, white, orange, yellow stringers, scattered white silt stringers, medium-coarsely textured, moderately compacted.
210-215	Clay, as 200-210 above, scattered stringers, finely grained quartz sand.
215-220	Clay, medium grey and brown, minor orange streaks, scattered white and light brown silt and sand stringers, medium-coarsely textured, moderately compacted.

cont/...

DEPTH	STRATIGRAPHIC DESCRIPTION
220-225	Sand, clear, white, light brown, finely grained, sub-angular, medium sorted, quartz, very dirty, common white clayey and brown silty interstitial material, scattered stringers of clay, as 215-220 above, scattered carbonaceous wood fragments, friable, loosely compacted.
225-230	Sand and clay stringers as 220-225 above.
230-235	Sand and clay stringers as 220-225 above.
235-240	Sand as 220-225 above, rare to scattered clay lenses, minor carbonaceous wood fragments.
240-245	Sand, clear, light brown, yellow, white, fine-medium grained, sub-angular, medium sorted, quartz, very dirty, common white clayey in terstitial material, rare medium brown clay stringers, rare orange and yellow clay inclusions, friable, loosely compacted.
245-250	Sand, as 240-245 above except medium-coarsely grained and poorly sorted, scattered yellow, orange, red clay inclusions.
250-255	Sand, as 245-250 above.
255-260	Sand, as 245-250 above, but no coloured clay inclusions present.
260-265	Sand, as 245-250 above, rare orange staining on few quartz grains.
265-270	Sand, as 240-245 above.
270-275	Sand, as 240-245 above, scattered stringers of medium brown clay.
275-280	Sand, as 240-245 above, except scattered patches of yellow and orange quartz and clayey in terstitial material, rare medium brown clay inclusions.
280-285	Sand, as 240-245 above, scattered fragments of coal.
285-290	Sand, clear, minor light brown and orange, medium-very coarsely grained, sub-angular, poorly sorted quartz, extremely dirty, common white clay interstitial material, scattered white and orange clay lenses, scattered dark brown nodules, friable, loosely compacted.
290-295	Sand, as 245-250 above.
295-300	Sand, interbedded, clear, white, yellow, orange stringers, medium-very coarsely grained, sub-angular to angular, poorly sorted, quartz very dirty, common white and orange silty and clayey interstitial material, occasional carbonaceous wood fragments, scattered, brown and orange clay lenses, occasional orange and brown nodules, friable, loosely compacted.
300-305	Sand, as 295-300 above.
305-310	Sand, clear, white, grey, fine-coarsely grained, sub-angular, poorly sorted, quartz, common white clayey and grey silty interstitial material, scattered lithic shale fragments, scattered orange and brown clay inclusions, friable, loosely compacted.

/ All samples : S/37/37/0

BORE # 61

DEPTH	STRATIGRAPHIC DESCRIPTION
305-310 B	Silty Sand, clear, light brown, rare pink, finely to medium grained, sub-angular, medium sorted quartz, very dirty, common light brown silty and white clayey interstitial material, scattered white and brown clay lenses and rare orange clay inclusions, rare orange quartz aggregates, rare scatter small carbonaceous fragments and specks, loosely to moderately compacted.
310-315	Silty Sand, as 305-310 above, except fine to very coarse grained, and poorly sorted.
315-320	Silty Sand, as 310-315 above
320-325	Silty Sand, as 310-315 above
325-330	Silty Sand, as 310-315 above, except scattered stringers of orange and white clay.
330-335	Silty Sand, as 310-315 above.
335-340	Silty Sand, as 310-315 above, scattered carbonaceous wood fragments.
340-345	Silty Sand, as 325-330 above, rare carbonaceous wood fragments
345-350	Silty Sand, as 310-315 above
350-355	Sand, clear, minor light brown, finely to very coarsely grained, sub-angular to sub-rounded, poorly sorted, quartz, extremely dirty, common, light grey and white and rare orange silty and clayey interstitial material, loosely to moderately compacted.
355-360	Sand, as 350-355 above, rare, minute carbonaceous wood fragments, rare medium brown clay stringers.
360-365	Silty Sand, as 310-315 above, scattered orange clay stringers and lenses.
365-370	Silty Sand, as 310-315 above.
370-375	Silty Sand, as 310-315 above, rare reddish-brown sand inclusions.
375-380	Silty Sand, as 310-315 above
380-385	Silty Sand, as 310-315 above, common yellow and orange clay stringers
385-390	Silty Sand, clear, light brown, light smokey grey, as 310-315 above, scattered medium grey clay stringers, scattered orange-coated yellow clay inclusions.
390-395	Silty Sand as 385-390 above, scattered orange silt stringers.
395-400	Sandy Clay, medium grey, white, minor yellow and orange, stringers, common finely to coarsely grained clear, light brown, orange quartz, set in clay matrix, rare to scattered carbonaceous wood fragments, scattered reddish-brown limonitic (?) coated clay(sideritic) inclusions, loosely to moderately compacted.
400-405	Sandy Silt, light grey, salmon pink, common stringers and interbeds of medium brown and minor yellow and orange clay, common fine to coarse clear quartz grains, scattered reddish-brown sideritic clay fragments, coarsely-textured, moderately compacted.

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BORE # 61

692225

DEPTH	STRATIGRAPHIC DESCRIPTION
405-410	Clay, medium grey, rare yellow, orange, white stringers and inclusions, scattered yellow, white and orange silt and and finely grained clayeys and stringers, scattered loose quartz grains, medium to coarsely textured, moderately compacted.
410-415	Clay as 405-410 above.
415-420	Clay, light grey, medium grey, orange, yellow, rare white stringers, common fine to medium quartz grains set in clay, scattered reddish-brown sideritic clay inclusions, coarsely textured, moderately compacted.
420-425	Clay, as 415-420 above.
425-430	Clay, mottled medium, light brown, orange and white, scattered light orange clay stringers and interbeds, scattered clear and reddish-brown quartz grains, coarsely textured, moderately compacted.
430-435	Silt, medium grey, sandy, scattered stringers of dark orange clay, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
435-440	Silt, medium light grey, brown, white, yellow, minor orange, scattered salmon pink clay lenses, common fine to coarse quartz grains, coarsely textured, moderately compacted.
440-445	Silt, as 435-440 above, scattered rounded sideritic clay nodules.
445-450	Silty Sand, clear, light brown, occasional orange fine to medium grained quartz, very dirty, common light brown, white and orange silty interstitial material, common multi-coloured silt, and clay stringers, scattered reddish-brown sideritic nodules, moderately compacted.
450-455	Silty Sand as 445-450 above
455-460	Clay, mottled, medium, light, white, yellow, orange and red, scattered clusters of orange quartz, coarsely textured, moderately compacted.
460-465	Clay, as 455-460 above, scatter light brown, orange and white and pink silt stringers, scattered to rare carbonaceous wood fragments, coarsely textured, moderately compacted.
465-470	Clay, as 460-465 above.
470-475	Clay, white to light grey and medium grey with minor yellow and pink streaks, common, coarsely grained, sub-angular clear quartz, scattered carbonaceous wood fragaments
475-480	Clay as 470-475 above.
480-485	Clay, as 470-475 above, but becoming more sandy.
485-490	Sandy Clay, as 480-485 above, scattered limonitic stained magnetitic shale plates
490-495	Silty Sand, clear, minor light brown and yellow finely to coarsely grained, sub-angular, poorly-sorted quartz, extremely dirty, common light brown, white, yellow, orange silty and clayey interstitial material, common stringers of clay as 470-475 above often grades into sandy silt, scattered carbonaceous wood fragments, moderately to loosely compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
495-500	Clay as 455-460 above, scattered to common carbonaceous wood fragments.

BORE # 62

(0 - 170)

692227

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, medium brown, common coarsely grained and pebbles of clear, brown and pink, yellow, sub-rounded quartz, finely textured, moderately compacted.
5-10	Clayey Sand, clear, brown, yellow, pink, grey, medium to very coarsely grained, sub-angular, poorly sorted, quartz, extremely dirty, common orange and rare white clayey interstitial material, scattered reddish-brown ferruginous clay fragments, loosely to moderately compacted.
10-15	Clayey Sand, as 5-10 above, rare black carbonaceous? patches in the interstitial material, scattered slight reddish orange staining of about 5% of quartz and yellow staining of 20% of quartz, rare ferruginous nodules.
15-20	Sand, clear, yellow, light brown, medium grained, sub-angular, medium sorted, quartz, dirty, scattered brown and rare white silty interstitial material, 40% of grains are stained orange or yellow, about 10% of the grains have black staining and infilling in pits.
20-25	Sand, as 15-20 above, scattered carbonaceous specks.
25-30	Sand, light brown, clear, finely grained, sub-angular to sub-rounded, medium to well sorted, quartz, dirty, scattered light brown, white and occasional orange clayey and silty interstitial material, scattered carbonaceous speck and wood fragments, scattered stringers of light brown and orange silty clay, friable, loosely to moderately compacted.
30-35	Sand, as 25-30 above but very silty.
35-40	Sand, as 30-35 above.
40-45	Sand, as 30-35 above.
45-50	Sand, clear, white, finely grained, sub-angular, well sorted, quartz, clean, rare white clayey interstitial material, rare to scattered minute carbonaceous specks, occasional grains less than 1% is stained pink, orange or yellow, loosely compacted.
50-55	Sand, as 45-50 above, plus rare soft very finely grained plate of silvery mineral with brilliant metallic lustre.
55-60	Sand, as 45-50 above.
60-65	Silt, white to light grey, scattered stringers and inclusions of white and orange clay, scattered carbonaceous streaks and wood fragments, coarsely textured, moderately to loosely compacted.
65-70	Silt, as 60-65 above, except medium grey.
70-75	Sand, as 45-50 above.
75-80	Silty Clay, medium grey scattered white stringers and rare orange inclusions, rare to scattered carbonaceous specks and coal fragments, coarsely textured, moderately compacted.
80-85	Silty Clay, as 75-80 above.
85-90	Clay, medium grey, scattered orange patches and streaks, scattered carbonaceous specks and wood fragments, rare mica, coarsely textured, moderately compacted.

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BORE # 62

692228

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Clay, as 85-90 above.
95-100	Clay, as 85-90 above, scattered white silt lenses.
100-105	Clay, light and medium grey, rare orange patches, common carbonaceous wood fragments, scattered orange-brown ferruginous clay fragments, medium textured, moderately compacted.
105-110	Clay, medium grey, orange brown and orange stringers, rare carbonaceous-wood fragments, rare medium grained, sub-rounded light brown, quartz, coarsely textured, moderately compacted.
110-115	Clay, medium grey, scattered orange lenses and inclusions, scattered, coarsely grained, brown and clear, sub-rounded to rounded, quartz, rare mica, medium textured, moderately compacted.
115-120	Clay, as 110-115 above, scattered red brown and orange sideritic clay inclusions.
120-125	Clay, as 115-120 above.
125-130	Clay, as 115-120 above.
130-135	Clay, as 1 5-120 above.
135-140	Clay, as 115-120 above, scattered limonitic coated magnetitic shale fragments.
140-145	Clay, as 115-120 above, scattered bright red and orange ferruginous patches (staining?).
145-150	Clay, medium grey, rare mica, finely to medium textured, moderately compacted.
150-155	Clay, as 145-150 above.
155-160	Clay, medium grey, scattered orange brown stringers, rare mica, scattered reddish brown sideritic clay fragments, finely to medium textured, moderately compacted.
160-165	Clay, medium grey rare rusty brown clay inclusions, rare mica, rare reddish brown sideritic clay inclusions, finely to medium textured, moderately compacted.
165-170	Clay, as 155-160 above.

BORE No.62

692229

DEPTH	STRATIGRAPHIC DESCRIPTION
170-175	Clay, medium grey, minor white and orange stringers, occasional carbonaceous wood fragments, coarsely textured, well compacted.
175-180	Clay, medium grey, medium to coarsely textured, well compacted.
180-185	Clay, medium to dark grey, medium textured, well compacted, rare mica.
185-190	Silty clay, medium grey, rare orange, rare white stringers, scattered fine grains of quartz.
190-195	Clay, medium to dark grey, rare quartz, occasional orange clay inclusions, medium textured, moderately compacted.
195-200	Clay, medium grey, medium to coarsely textured, well compacted.
200-205	Clay, as 195 above, plus orange silty finely grained sand inclusions.
205-210	Clay, as 195-200 above.
210-215	Clay, as 195-200 above, rare finely divided mica.
215-220	Clay, as 195-200 above.
220-225	Clay, as 195-200 above.
225-230	Clay, as 195-200 above.
230-235	Clay, as 195-200 above, except coarsely textured.
235-240	Clay, as 195-200 above.
240-245	Clay, as 195-200 above.
245-250	Clay, as 195-200 above, occasional brown clay sub-rounded inclusions.
250-255	Clay, as 195-200 above.
255-260	Clay, as 195-200 above.
260-265	Silty sand, clear, occasional brown and pink, very fine to finely grained, sub-angular, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered white clay and orange clay, and scattered dolerite grains, loosely to moderately compacted.

All samples: S 34/34/0

Q4711 73-939
692230

BORE NO.63

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sand, light brown, clear, very finely grained, sub-angular, medium sorted quartz, dirty, common white and brown silty interstitial material, rare carbonaceous matter, loosely compacted.
5-10	Silt, light brown, coarsely textured, moderately compacted, scattered light brown quartz set in silty and clayey matrix.
10-15	Sand, as 210-215 above.
15-20	Sand, as 210-215 above, but common silt.
20-25	Sand, as 210-215 above, but common silt.
25-30	Silt, as 215-220 above, scattered brown to grey clay
30-35	Sand, clear, brown, orange, finely grained, sub-angular, poorly sorted quartz, very dirty, common brown silty interstitial material, scattered white clay fragments, scattered stringers of light grey and pink silty clay, scattered dark brown clay grains, loosely to moderately compacted.
35-40	Silty sand, brown, clear, fine to coarsely grained, occasional pebbles, up to 1/8", sub-angular, poorly sorted quartz, very dirty, common grey, brown and orange clayey and silty interstitial material, scattered stringers of brown, yellow, and white silt, scattered sub-rounded to rounded brown and red clay coarse grains.
40-45	Clay, medium pinkish brown, scattered inclusions of dark brown clay? nodules, occasional fine grains of clear and white quartz, medium to coarsely textured, moderately compacted.
45-50	Clay, pink with scattered white stringers, scattered dark brown clay pebbles up to 1/8" diameter, medium textured, moderately compacted.
50-55	Clay, as 45-50 above.
55-60	Clay, as 45-50 above.
60-65	Clay, as 45-50 above.
65-70	Clay, pink, brown and white stringers, scattered brown and black clay? pebbles and scattered quartz
70-75	Clay, pink, white, occasional brown stringers, scattered clay particles, very silty, common fine grains of quartz, coarsely textured, moderately compacted.
75-80	Silt, pink and white stringers, scattered quartz, common clay, coarsely textured, loosely to moderately compacted.
80-85	Silt, as 75-80 above.
85-90	Silt, as 75-80 above.
90-95	Silt, as 75-80 above, scattered red and brown clay stringers.
95-100	Silt, as 90-95 above.

692231

BORE No.63

DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Clayey silt, white, orange and brown stringers, scattered red and brown clay inclusions, scattered quartz, scattered brown clay pebbles and grains, loosely to moderately compacted, coarsely textured.
105-110	Silty clay, brown, white and orange, scattered black igneous fragments, quartz and dark brown clay grains, coarsely textured, moderately compacted.
110-115	Silt, red and brown, occasional white, scattered black igneous fragments, scattered dark brown nodules and clay siderite fragments, coarsely textured, moderately compacted.
115-120	Scattered fragments of weathered diorite (covered in brown silt)
120-125) 125-130) 130-135) 135-140)	Ditto

All samples : S/35/35/0

Q47/1 73-939

692232

BORE No.64

(These samples very wet)

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, medium to dark brown, waxy when wet, scattered white and brown clay inclusions, fragments of dolerite? scattered brown silty stringers (plastic)
5-10	Silty clay, medium brown, grey, orange, common silt size and fine grains of quartz, scattered dark brown clay grains (plastic)
10-15	Pebbly sand, brown, orange, rare clear, medium to coarsely grained quartz, common orange, brown and grey clay pebbles up to 1/8" and igneous pebbles, very dirty, common clay matrix, loosely compacted.
15-20	Silty clay, light brown, occasional dark brown clay, scattered quartz and lithic grains (very plastic)
20-25	Clay, yellow and brown, common dark brown, occasional orange and red particles, medium textured (plastic)
25-30	Clay, as 20-25 above.
30-35	Clay, as 20-25 above.
35-40	Clay, as 20-25 above.
40-45	Clay, as 20-25 above.
45-50	Clay, dark brown, scattered yellow, brown and white clay stringers, finely textured (plastic)
50-55	Clay, as 45-50 above.
55-60	Clay, dark brown, finely textured (plastic)
60-115	Missing
115-120	Silt, medium grey, scattered finely grained quartz and minor igneous grains, medium textured, moderately compacted.
120-125	Silt, as 115-120 above, occasional quartz pebbles up to 1/8" diameter.
125-130	Silt, medium grey, scattered brown and white stringers, scattered fine to coarse grains of quartz, medium to coarsely textured, moderately compacted.
130-135	Clay, light brown, grey and orange, scattered grey silt stringers, medium textured, moderately compacted.

All samples : S/32/32/0

178

BORE # 64

(135-495) 692233

DEPTH	STRATIGRAPHIC DESCRIPTION
135-140	Clay, medium brown, scattered orange lenses, common coarsely textured white silt interbeds, coarsely textured, moderately compacted.
140-145	Silt, medium brown, white, scattered orange clay lenses, scattered carbonaceous-wood fragments, scattered very coarsely grained, clean quartz, coarsely textured, moderately compacted.
145-150	Clay, medium and dark brown, light grey and orange stringers, rare mica, rare medium grained clear quartz, scattered carbonaceous wood fragments, medium textured, moderately compacted.
150-155	Silt, light brown, light white stringers, scattered orange clay inclusions, scattered very coarse grains of quartz, rare carbonaceous-wood fragments.
155-160	Clay, as 145-150 above except coarse textured.
160-165	Clay, as 155-160 above, rare siderite nodule clusters.
165-170	Clay, as 145-150 above.
170-175	Clay, as 155-160 above.
175-180	Clay, as 160-165 above.
180-185	Clay, as 145-150 above.
185-190	Silt, as 140-145 above.
190-195	Silt, medium brown, rare orange-brown patches, scattered reddish-brown sideritic clay inclusions, scattered orange-brown sideritie nodule clusters, scattered carbonaceous-wood fragments, scattered very corase grains of clear quartz, coarsely textured, moderately compacted.
195-200	Silt, as 190-195 above, but medium textured and common quartz grains.
200-205	Silt, as 190-195 above.
205-210	Silt, medium brown, common coarse grained to fine pebbles of, sub-angular, clear and brown quartz, occasional red and orange limonitic coated ferruginous rounded nodules up to 1/8" in diameter, coarsely textured, moderately compacted.
210-215	Silty Sand, clear scattered orange, fine to coarsely grained, sub-angular, poorly sorted, quartz, extremely dirty common medium brown silty interstitial material, scattered carbonaceous-wood fragments, 50% of grains have very finely divided black carbonaceous matter? adhering to them, rare yellow staining on less than 1%.
215-220	Silty Sand, as 210-215 above.
220-225	Sandy Silt, as silty sand in 210-215 above.
225-230	Silt, light to medium brown, scattered orange clay streaks and stringers, common fine to coarse grained clear and brown quartz, scattered reddish brown sideritic clay inclusions, rate to scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
230-235	Silty Sand, as 210-215 above, but no black staining, friable, loosely to moderately compacted.
235-240	Silty Sand, as 230-235 above.
240-245	Silty Sand, as 230-235 above, scattered white and medium brown clay patches and lenses.
245-250	Clay, medium grey and brown, scattered orange and white lenses and stringers, common silt stringers, scattered carbonaceous wood fragments, rare to scattered reddish brown sideritic clay inclusions, scattered very coarse grained clear quartz, medium to coarsely textured, moderately compacted.
250-255	Clay, as 245-250 above.
255-260	Silt, medium brown, scattered white, and rare orange, scattered carbonaceous wood fragments, scattered sideritic silt? fragments, scattered quartz grains, coarsely textured, moderately compacted.
260-265	Silt, as 255-260 above.
265-270	Silt, as 255-260 above.
270-275	Silt, as 255-260 above, scattered angular fragments of quartz up to 1/8" diameter.
275-280	Silt, as 270-275 above.
280-285	Silt, as 270-275 above, becoming more sandy.
285-290	Silt, as 280-285 above.
290-295	Silt, as 280-285 above, scattered orange clay inclusions.
295-300	Silt, as 290-295 above.
300-305	Silt, as 290-295 above, minor orange staining of a few quartz grains.
305-310	Silty Sand, clear, minor light brown, rare pink and grey, medium to coarse grained, sub-angular, poorly sorted, quartz, extremely dirty common light to medium brown, scattered white and rare orange silty interstitial material, scattered carbonaceous wood fragments, rare less than 1% orange slight staining, moderately compacted.
310-315	Sandy Silt, medium brown, light grey, orange stringers, common carbonaceous wood fragments and matter, scattered coarse grained clear quartz, medium to coarsely textured, moderately compacted.
315-320	Sandy Silt, as 310-315 above, rare medium steel grey coaly fragments.
320-325	Clay, medium brown scattered orange stringers, common carbonaceous wood fragments, scattered very coarse grained, clear, quartz, medium textured, moderately compacted.
325-330	Sandy Silt, as 315-320 above.
330-335	Sandy Silt, as 315-320 above, rare reddish brown sideritic clay fragments.

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DEPTH	STRATIGRAPHIC DESCRIPTION
335-340	Clay, as 320-325 above.
340-345	Clay, as 320-325 above.
345-350	Silty Sand, as 305-310 above.
350-355	Silty Sand, as 305-310 above, scattered to common orange silty interstitial material some of which may be ferruginous and stains the quartz grains.
355-360	Clay, as320-325 above, coarsely textured becoming silty and sandy, may have ferruginous staining in places.
360-365	Clay, as 355-360 above.
365-370	Sandy Silt, as 315-320 above, scattered reddish brown sideritic clay fragments.
370-375	Silt, light brown, scattered steel bluish grey clay pebbles? scattered carbonaceous-wood fragments, scattered reddish brown sideritic clay fragments, scattered fine to medium clear quartz grains, rare bright orange quartz, coarsely textured, moderately compacted.
375-380	Sandy Silt, as 310-315 above.
380-385	Sandy Silt, as 310-315 above.
385-390	Sandy Silt, as 310-315 above.
390-395	Sandy Silt, as 310-315 above, occasional angular fragment of quartzite.
395-400	Sandy Silt, as 310-315 above.
400-405	Sandy Silt, as 310-315 above, scattered orange quartz grains, scattered orange-brown siderite grains.
405-410	Sandy Silt, as 400-405 above.
410-415	Sandy Silt, as 400-405 above.
415-420	Sandy Silt, as 400-405 above.
420-425	Sandy Silt, as 400-405 above.
425-430	Sandy Silt, as 400-405 above.
430-435	Sandy Silt, as 400-405 above.
435-440	Clay, medium grey, brown and dark brown stringers scattered orange and white lenses, scattered carbonaceous-wood fragments, scattered fine to very coarse grained quartz, occasional reddish-brown siderite nodule clusters, coarsely textured, moderately compacted.
440-445	Clay, as 435-440 above, occasional rounded quartzite pebble.
445-450	Clay, as 435-440 above.
450-455	Clay, as 435-440 above, becoming both silty and sandy.
455-460	Clay, as 435-440 above, but carbonaceous-wood fragments make-up 50% of the sample.

DEPTH	STRATIGRAPHIC DESCRIPTION
460-465	Clay, as 450-455, carbonaceous-wood fragments 60%.
465-470	Clay, as 435-440 above, sandy.
470-475	Clay, as 435-440 above, sandy.
475-480	Clay, as 435-440 above, sandy.
480-485	Sandy Silt, as 310-315 above.
485-490	Sandy Silt, as 400-405.above.
490-495	Sandy Silt, as 400-405 above.

All Samples - S 34/34/0

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DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Missing
5-10	Sand, clear, minor light brown and white, coarse grained, sub-angular, poorly sorted quartz, dirty, scattered light brown silty interstitial material, loosely compacted.
10-15	Sand, clear, minor light brown, scattered white, rare pink fine to very coarse grained quartz, sub-angular to sub-rounded, poorly sorted, fairly clean, rare white clayey and light brown silty interstitial material, scattered grains and angular fragments of dolerite and quartzite, and chert, loosely compacted.
15-20	Clay, light and medium yellowish-brown, angular fragments up to ½" diameter of yellow quartzite and dolerite.
20-25	Sand, clear, light smokey grey, light brown, rare pink, white, medium to very coarse grained, sub-angular to sub-rounded, quartz, poorly sorted, dirty, scattered light brown silty interstitial material, scattered white vein quartz, ~~to~~ dark dolerite grains and fragments, rare carbonaceous grains, loosely compacted.
25-30	Sand, as 20-25 above.
30-35	Clay, light orange-brown, angular fragments up to ½" diameter of dolerite, quartz and quartzite, finely textured, moderately to well compacted.
35-40	Clay, as 30-35 above.
40-45	Clay, dark brown, scattered light orange-brown stringers and streaks, scattered angular reddish-brown clay fragments, medium textured, moderately compacted.
45-50	Clay, dark brown, minor orange-brown lenses and inclusions, medium textured, well compacted.
50-55	Clay, as 45-50 above.
55-60	Clay, as 45-50 above, scattered lenses of orange silt.
60-65	Clay, as 45-50 above.
65-70	Clay, as 45-50 above.
70-75	Clay, as 45-50 above.
70-75	Clay, as 45-50 above.
75-80	Clay, as 45-50 above.
80-85	Clay, medium to dark brown, rare to scattered white and yellow silt inclusions, medium textured, well compacted.
85-90	Clay, medium to dark brown, medium textured, well compacted.
90-95	Clay, as 85-90 above, rare orange streaks.
95-100	Clay, as 90-95 above,
100-105	Clay, as 90-95 above.
105-110	Clay, as 90-95 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
110-115	Clay, as 90-95 above.
115-120	Clay, as 90-95 above.
120-125	Clay, as 90-95 above.
125-130	Clay, as 90-95 above.
130-135	Clay, as 90-95 above.
135-140	Clay, as 90-95 above, scattered carbonaceous wood fragments.
140-145	Clay, as 90-95 above, plastic and finely textured.
145-150	Clay, as 140-145 above.
150-152	Dolerite

All samples are S 30/30/0

BORE # 66

692239

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5'	Sandy Silt, very light fawn, common fine to medium grained quartz, scattered carbonaceous wood fragments, occasional quartz pebbles up to 1/16" diameter, scattered light orange brown clay fragments.
5-10	Clay, orange-brown, common fine to coarse grained, clear quartz, scattered angular reddish-black hard ferruginous clay fragments, coarsely textured, moderately compacted.
10-15	Clay, as 5-10 above.
15-20	Silty Gravel, pebbles up to 1/8" diameter and very coarse grained clear, smokey grey, brown, pink, sub-angular to sub-rounded, poorly sorted quartz, set in a yellowish-orange clay and silt matrix, rare small carbonaceous wood fragments, moderately compacted.
20-25	Silty Gravel, as 15-20 above, some of quartz has slight orange staining, matrix becoming sandy.
25-30	Silty Gravel, as 20-25 above.
30-35	Silty Gravel, as 20-25 above.
35-40	Silty Gravel, as 20-25 above.
40-45	Silty Gravel, as 20-25 above.
45-50	Silty Gravel, as 20-25 above, scattered mica crystals.
50-55	Silty Gravel, as 20-25 above.
55-60	Silt, light brown, rare white, minor patches of orange, scattered pebbles of quartz up to 1/8" diameter, very coarsely textured becoming sandy in places, moderately compacted.
60-65	Silt, as 55-60 above, pebbles ¼" diameter.
65-70	Silt, light brown, medium grey, scattered orange-brown, rare to scattered pebbles of clear and white rounded quartz up to ¼" diameter, medium textured, moderately compacted
70-75	Silty Clay, dark, medium and light brown, scattered white and orange patches, scattered rounded pebbles of clear quartz up to 1/8" diameter, scattered silt stringers, coarsely textured, moderately compacted.
75-80	Clay, dark and medium brown, rare pebbles of sub-rounded to rounded quartz, up to 1/8" diameter, coarsely textured, moderately compacted.
80-85	Clay, dark chocolate reddish-brown, minor orange-brown streaks and patches, coarsely textured, moderately compacted.
85-90	Clay, as 80-85 above, scattered cream silt lenses, one very large dark red ferruginous and silicified silt pebble 1" diameter.
90-95	Clay, as 80-85 above.
95-100	Clay, as 80-85 above, scattered white sugary textured clay inclusions.

DEPTH	STRATIGRAPHIC DESCRIPTION
100-105	Silty Clay, dark brown, scattered medium and orange-brown patches, rare small carbonaceous wood fragments, scattered white clay specks, occasional rounded pebbles of smokey quartz up to 1/8" diameter, coarsely textured, moderately compacted.
105-110	Silty Clay, as 100-105 above.
110-115	Silty Clay, as 100-105 above, (no pebbles)
115-120	Silty Clay, as 100-105 above, (no pebbles)
120-125	Silty Clay, as 100-105 above, (no pebbles), scattered medium greyish-brown stringers.
125-130	Silty Clay, as 100-105 above.
130-135	Clayey Silt, dark and medium brown, medium grey, scattered orange-brown, orange and white stringers, patches and inclusions, rare medium grained quartz, rare mica flakes, rare cream felspar fragments (one piece), medium textured, moderately compacted.
135-140	Clayey Silt, as 130-135 above, but predominantly medium brown with common orange patches.
140-145	Clayey Silt, as 135-140 above, only finely to medium textured.
145-150	Clayey Silt, as 135-140 above.
150-155	Clayey Silt, as 135-140 above, only finely textured, scattered carbonaceous wood fragments.
155-160	Clay, dark brown and dark reddish brown, scattered orange patches, rare white clay lenses and inclusions, scattered carbonaceous wood fragments, scattered very coarse grained quartz, coarsely textured, moderately compacted.
160-165	Clay, medium to dark brown, scattered to rare orange and red patches, scattered minute white clay specks, scattered white clay lenses and inclusions, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
165-170	Clay, as 160-165 above.
170-175	Clay, as 160-165 above, rare orange clay inclusions.
175-180	Clay, as 160-165 above.
180-185	Clay, as 160-165 above.
185-190	Clay, as 160-165 above.
190-195	Clay, as 160-165 above.
195-200	Clay, medium grey, rare medium orange-brown streaks, scattered carbonaceous wood fragments, scattered lenses and white clay, rare grey angular fragments of quartzite, coarsely textured, moderately compacted.
200-205	Clay, medium greyish-brown, rare white inclusions, scattered yellow streaks, occasional coarse grained quartz, rare carbonaceous wood fragments, scattered very finely divided mica, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
205-210	Clay, as 200-205 above, rounded pebbles of white quartz up to 1/8" diameter.
210-215	Clay, as 200-205 above.
215-220	Clay, as 200-205 above,
220-225	Clay, as 200-205 above, scattered reddish-orange silt inclusions, scattered carbonaceous wood fragments.
225-230	Clay, as 200-205 above.
230-235	Clay, as 200-205 above.
235-240	Clay, as 200-205 above.
240-245	Clay, as 200-205 above.
245-250	Clay, as 200-205 above.
250-255	Clay, as 200-205 above.
255-260	Clay, as 200-205 above.
260-265	Clay, medium greyish-brown, scattered orange stringers, occasional white clay inclusions, scattered finely divided mica, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
265-270	Clay, as 260-265 above.
270-275	Clay, as 260-265 above, medium textured.
275-280	Clay, as 270-275 above.
280-285	Clay, medium brown and greyish-brown, scattered orange patches and streaks, scattered carbonaceous wood fragments, rare coarse grained quartz, medium to coarsely textured, moderately compacted.
285-290	Clay, as 280-285 above.
290-295	Clay, as 280-285 above.
295-300	Clay, medium greyish-brown, scattered orange patches, scattered white and light cream clay inclusions and lenses, scattered carbonaceous wood fragments, occasional pebbles of rounded quartz up to 1/8" diameter.
300-305	Clay, medium grey, scattered brownish-grey, common white lenses and inclusions, minor yellow and orange lenses and streaks, scattered rounded pebbles of quartz up to 1/8" diameter, rare mica, rare carbonaceous wood fragments, coarsely textured, moderately compacted.
305-310	Clay, as 300-305 above, scattered carbonaceous wood fragments.
310-315	Clay, as 305-310 above.
315-320	Clay, as 305-310 above, scattered angular fragments of quartz.

DEPTH	STRATIGRAPHIC DESCRIPTION
320-325	Clay, medium brown, scattered yellow stringers and orange inclusions, occasional white clay inclusions, scattered pebbles of quartz up to 1/8" diameter, coarsely textured, moderately compacted.
325-330	Clay, medium grey and greyish-brown, rare white and yellow inclusions, scattered finely divided mica, rare fragments of quartzite, coarsely textured, moderately compacted.
330-335	Clay, as 325-330 above, rare carbonaceous wood fragments and yellow tinges.
335-340	Clay, medium brown, occasional carbonaceous wood fragments medium textured, moderately compacted.
340-345	Clay, as 300-305 above.
345-350	Clay, as 325-330 above.
350-355	Clay, medium brown, rare white and cream clay inclusions.
355-360	Clay, medium brown, scattered white, cream and yellow lenses and inclusions, rare carbonaceous wood fragments, rare finely divided mica, medium textured, moderately compacted.
360-365	Clay, as 355-360 above.
365-370	Clay, medium grey, rare to scattered white clay inclusions, rare carbonaceous blebs, finely to medium textured, moderately compacted.
370-375	Clay, as 365-370 above, scattered carbonaceous wood fragments.
375-380	Clay, medium grey and greyish-brown, scattered orange clay fragments, rare fine grained quartz, rare carbonaceous blebs, medium textured, moderately compacted.

All samples are S 30/30/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Sand, clear, light brown, orange, yellow, rare white, finely grained, sub-angular, medium to well sorted, quartz, dirty common light brown silty interstitial material, minor orange ferruginous staining on 5-10% of grains, loosely compacted.
5-10	Sand, clear, orange, yellow rare white, pink, finely to medium grained, sub-angular, poorly sorted, quartz, very dirty common yellow and orange clayey and light brown silty interstitial material, scattered dark reddish brown, rounded, ferruginous nodules, scattered pebbles of reddish brown quartz pebbles up to ¼" diameter, whole sample slight yellow staining.
10-15	Sand, clear, white, minor yellow and orange, finely grained, sub-angular, medium sorted, quartz, dirty common light brown and white silty interstitial material, scattered red quartz pebbles up to 1/4" diameter, minor orange and yellow staining of 5-10% of individual grains.
15-20	Clay, yellowish-orange, scattered white inclusions, scattered yellow quartz grains, which have minor yellow ferruginous staining.
20-25	Clay, orange, yellow and white stringers, rare dark orange-brown sideritic coated clay inclusions, finely textured, moderately compacted.
25-30	Clay, as 20-25 above, except medium textured.
30-35	Clay, AS 25-30 above.
35-40	Clay, orange minor white and rare red scattered dark reddish-brown sideritic coated clay inclusions, medium to coarsely textured, moderately compacted.
40-45	Clay, as 35-40 above.
45-50	Clay, as 35-40 above.
50-55	Clay, as 35-40 above.
55-60	Clay, orange, yellow, white, rare medium brown, stringers, scattered sideritic clay inclusions, rare carbonaceous matter inclusions, finely textured, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, as 55-60 above.
70-75	Clay, orange, yellow, dark brown, reddish orange, stringers and rare white inclusions, scattered dark reddish-brown sideritic clay fragments, finely to medium textured, moderately compacted.
75-80	Clay, dark brown, orange, yellow, minor white, stringers, waxy, scattered dark orange and reddish brown sideritic clay inclusions, finely textured, moderately compacted.
80-85	Clay, dark chocolate brown, scattered orange stringers, rare white inclusions, finely textured, moderately compacted.
85-90	Clay, as 80-85 above (plastic).
90-95	Clay, as 80-85 above (plastic).
95-100	Clay, as 80-85 above (plastic).
100-105	Clay, as 80-85 above.

DEPTH	STRATIGRAPHIC DESCRIPTION
105-110	Clay, as 80-85 above.
110-115	Clay, as 80-85 above.
115-120	Clay, medium to dark brown, rare orange-brown inclusions, medium textured, moderately compacted.
120-125	Clay as 115-120 above, scattered very finely divided mica.
125-130	Clay, as 115-120 above, scattered very finely divided mica, rare white clay inclusions.
130-135	Clay, dark-greyish-brown, scattered finely divided mica, medium to coarsely textured, moderately compacted.
135-140	Clay, as 130-135 above, except coarsely textured.
140-145	Clay, as 130-135 above.
145-150	Clay, as 130-135 above.
150-155	Clay, as 130-135 above, scattered orange and white clay inclusions.
155-160	Clay, medium brown, rare orange-brown inclusions, scattered finely divided mica, finely textured, moderately compacted.
160-165	Clay, medium to dark brown, scattered finely divided mica, finely textured, moderately compacted.
165-170	Clay, as 160-165 above, rare carbonaceous mica fragment.
170-175	Clay, dark greyish brown, scattered very finely divided mica, rare orange-brown inclusions, finely textured, moderately compacted.
175-180	Clay, as 170-175 above.
180-185	Clay, as 170-175 above.
185-190	Clay, as 170-175 above.
190-195	Clay, as 170-175 above.
195-200	Clay, medium to dark greyish brown, scattered orange, and orange-brown clay lenses and inclusions, scattered dark reddish-brown sideritic clay fragments, rare finely divided mica, finely to medium textured, moderately compacted.
200-205	Clay, as 195-200 above.
205-210	Clay, medium to dark greyish brown, and orange stringers, minor white inclusions, finely textured, moderately compacted.
210-215	Clay, medium brown as 195-200 above.
215-220	Clay, medium brown as 195-200 above.
220-225	Clay, medium brown as 195-200 above.
225-230	Clay, medium brown as 195-200 above.
230-235	Clay, medium brown, scattered very finely divided mica, medium textured, moderately compacted.

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BORE # 67.

692245

DEPTH	STRATIGRAPHIC DESCRIPTION
235-240	Clay, as 230-235 above.
240-245	Clay, as 230-235 above.
245-250	Clay, as 230-235 above.
250-255	Clay, as 230-235 above, rare orange inclusions.
255-260	Clay, as 230-235 above.
260-265	Clay, as 230-235 above.
265-270	Clay, as 230-235 above, rare orange inclusions, scattered reddish-brown sideritic clay inclusions.
270-275	Clay, as 235-240 above.
275-280	Clay, as 265-270 above.
280-285	Clay, medium greyish-brown, finely textured, moderately compacted.
285-290	Clay, as 280-285 above, scattered red-brown tinges, rare mica.
290-295	Clay, as 265-270 above.
295-300	Clay, as 265-270 above.
300-305	Clay, medium to dark greyish brown, rare orange inclusions, scattered reddish brown sideritic clay inclusions, rare white quartz grains, scattered angular grey quartzite fragments, finely textured, moderately compacted.
305-310	Sandy Clay, medium brown, common orange and rare white inclusions, common fine to coarsely grained, of clear and white quartz, scattered dolerite and quartzite fragments, scattered lenses of orange silt, rare carbonaceous matter, coarsely textured, moderately compacted.
310-315	Clay, medium to dark grey and brown, scattered very finely divided mica, scattered reddish brown and orange sideritic clay inclusions, finely to medium textured, moderately compacted.
315-320	Clay, as 310-315 above.
320-325	Clay, as 310-315 above, occasional orange clay inclusions.
325-335	Core.
335-340	Clay, medium brown, scattered orange and reddish brown clay and rare white inclusions, scattered angular quartzite and dolerite fragments, finely to medium textured, moderately compacted.
340-345	Silt, light grey, light brown white, scattered orange clay inclusions, rare carbonaceous wood fragments, rare reddish brown sideritic clay inclusions, scattered angular dolerite fragments, medium textured, moderately compacted.
345-350	Clay, light and medium brown, scattered orange, yellow and reddish brown clay inclusions, rare clear quartz grains, scattered grey quartzite pebbles, scattered dark reddish-brown sideritic clay inclusions, medium textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
350-355	Clay, as 345-350 above.
355-360	Clay, as 345-350 above.
360-365	Clay, light fawn, medium grey and brown, scattered scattered white and orange inclusions, scattered finely grained quartz, scattered medium grey quartzite fragments, scattered reddish brown sideritic clay nodules, medium to coarsely textured, moderately compacted.
360-365	Clay, as 355-360 above.
365-370	Clay, as 355-360 above.
370-375	Clay, as 355-360 above.
375-380	Clay, as 355-360 above, predominantly medium grey.
380-385	Clay, as 355-360 above.
385-390	Clay, as 375-380 above.
390-395	Clay, as 355-360 above.
395-400	Clay, as 355-360 above.
400-405	Clay, as 375-380 above.
405-410	Clay, as 355-360 above.
410-415	Clay, Medium grey, scattered fawn and minor orange inclusions, rare sub-rounded, clear medium grained quartz, rare reddish-brown sideritic clay inclusions, finely to medium textured, moderately compacted.
415-420	Clay, medium brown scattered orange and white inclusions, scattered red-brown sideritic clay inclusions, rare medium to coarse grained sub-rounded quartz, medium textured, moderately compacted.
420-425	Clay, as 415-420 above, rare carbonaceous-wood fragments, but no sideritic clay nodules.
425-430	Clay, as 420-425 above, scattered carbonaceous mud fragments, rare dark grey quartzite fragments.
430-435	Clay, medium brown, fawn, scattered orange steaks, scattered carbonaceous streaks and coal lenses, scattered siderite bands, medium textured, moderately compacted.
435-440	Clay, light fawn, medium greyish-brown, minor yellow stringers and streaks, rare coal streaks, rare reddish-brown sideritic clay nodules, medium textured, moderately compacted.
440-445	Clay, medium grey, scattered orange stringers and minor white inclusions, scattered reddish brown sideritic inclusions, scattered coal fragments, and carbonaceous wood fragments, medium textured, moderately compacted.
445-450	Clay, as 440-445 above, rare greenish grey quartzite fragments.
450-455	Clay, medium greyish-brown, scattered, light to medium brown clay inclusions rare orange inclusions, scattered black carbonaceous mud, rare medium-coarsely grained, sun-angular, clean quartz, medium textured, moderately compacted.

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BORE # 67

692247

DEPTH	STRATIGRAPHIC DESCRIPTION
455-460	Clay, as 435-440 above, rare orange mineral.
460-465	Clay, medium grey, orange minor light fawn stringers, rare carbonaceous-wood fragments, rare red rounded quartz pebbles, finely textured, moderately compacted.
465-470	Clay, medium grey, minor orange, rare carbonaceous-wood fragments, mexium textured, moderately compacted.
470-475	Clay, as 465-470 above.
475-480	Clay, medium and light grey, stringers, scattered carbonaceous-wood fragments, scattered reddish brown sideritic clay fragments, rare limonitic stained magnetitic shale fragments, rare angular quartzite fragments, medium textured, moderately compacted.
480-485	Clay, as 475-480 above.
485-490	Clay, as 475-480 above, scattered orange clay.
490-495	Clay, medium grey, rare orange inclusions, rare carbonaceous streaks, rare reddish brown sideritic clay inclusions, rare mica, finely to medium textured, moderately compacted.
495-500	Clay, as 490-495 above, scattered carbonaceous-wood fragments,
500-510	Clay, as 490-495 above, except some orange and white clay inclusions.
510-520	Clay, medium to dark grey, scattered white, yellow and orange stringers, rare carbonaceous-wood fragements, finely textured, moderately compacted.

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692248

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light to medium brown, rare mica, finely textured, moderately compacted.
5-10	Sandy Clay, medium orange brown, common medium sorted to very coarse grained of clear, white, smokey grey quartz and quartzite set in silty clay matrix, coarsely textured, moderately compacted.
10-15	Pebble Sand, clear, light brown, smokey grey, white, fine to very coarsely grained to pebble up to 1/8" diameter, sub-angular, poorly sorted, quartz and quartzite, some dolerite, dirty, common light brown and orange silty and finely grained sandy interstitial material, moderately compacted, occasional reddish brown ferruginous staining, loosely compacted.
15-20	Pebble Gravel, as 10-15 above, except pebbles up to 1" in diameter, occasional pebble shows pitting and black staining.
20-25	Pebble Gravel, as 10-15 above, but mainly composed of quartzite pebbles.
25-30	Pebble Gravel, as 20-25 above.
30-35	Pebble Gravel, as 20-25 above.
35-40	Clay, medium to dark greyish brown, very finely divided, white clay specks and very finely divided carbonaceous specks, coarsely textured, moderately compacted.
40-45	Clay, as 35-40 above, rare finely divided mica.
45-50	Clay, as 35-40 above, common pebbles of white and grey quartzite up to 1/2" diameter.
50-55	Clay, as 35-40 above.
55-60	Clay, as 35-40 above, scattered rounded pebbles of light brown to pink quartz.
60-65	Clay, as 35-40 above.
65-70	Clay, as 35-40 above, becoming silty.
70-75	Clay, as 65-70 above.
75-80	Clay, medium to dark brown, scattered to rare finely divided mica, medium to coarsely textured, moderately compacted.
80-85	Clay, as 75-80 above.
85-90	Clay, as 75-80 above.
90-95	Clay, as 75-80 above.
95-100	Clay, as 75-80 above.
100-105	Clay, as 75-80 above.
105-110	Clay, as 75-80 above.
110-115	Clay, as 75-80 above.
115-120	Clay, as 75-80 above.
120-125	Clay, as 75-80 above, rare medium grained clear quartz.

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DEPTH	STRATIGRAPHIC DESCRIPTION
125-130	Clay, as 75-80 above.
130-135	Clay, as 75-80 above.
135-140	Clay, as 75-80 above, only fine to medium textured.
140-145	Clay, as 135-140 above.
145-150	Clay, as 135-140 above.
150-155	Clay, as 135-140 above.
155-160	Clay, as 135-140 above.
160-165	Clay, dark brown, finely to medium textured, well compacted.
165-170	Clay, as 160-165 above.
170-175	Clay, as 160-165 above.
175-180	Clay, as 160-165 above.
180-185	Clay, as 160-165 above.
185-190	Clay, as 160-165 above.
190-195	Clay, as 160-165 above.
195-200	Clay, as 160-165 above.
200-205	Clay, as 160-165 above.
205-210	Clay, as 160-165 above.
210-215	Clay, as 160-165 above, scattered finely divided mica.
215-220	Clay, as 160-165 above.
220-225	Clay, as 160-165 above.
225-230	Clay, as 160-165 above.
230-235	Clay, medium brown, finely to medium textured, moderately compacted.
235-240	Clay, medium to dark brown, scattered medium orange brown streaks, finely textured, well compacted.
240-245	Clay, as 235-240 above.
245-250	Clay, dark brown, finely textured, moderately compacted.
250-255	Clay, dark brown, finely textured, moderately compacted, scattered dark red brown clay.
255-260	Clay, as 250-255 above.
260-265	Core.
265-270	Clay, medium brown, scattered coal fragments, scattered very coarse grains of clear, sub-rounded quartz and occasional orange brown quartzite fragments, scattered white silt lenses, coarsely textured, moderately compacted.

.../4

DEPTH	STRATIGRAPHIC DESCRIPTION
270-275	Indurated Shale, silt and sand and coal, scattered fragments of igneous rock (dolerite) could be a sill.
275-280	Indurated Sediments and Dolerite as 270-275 above.
280-285	Indurated Sediments and Dolerite, as 270-275 above, but less indurated.
285-290	Slightly Indurated Clay, medium brown, scattered silt and finely grained sand stringers, scattered dolerite fragments.
290-295	Silt, medium brown, scattered clear medium to coarse grained, sub-rounded, quartz, common brown and rare white quartzite, sub-angular to angular fragments, and scattered igneous (dolerite) fragments, rare hard black carbonaceous mud? fragments, rare reddish brown sideritic clay fragments, finely to medium textured, moderately compacted.
295-300	Clay, medium brown, scattered very coarse grained and small, sub-angular pebbles of quartz, quartzite and occasional dolerite, scattered orange silt lenses, coarsely textured, moderately compacted.
300-305	Clay, as 295-300 above, rare mica, occasional carbonaceous wood fragments.
305-310	Silt, medium brown, scattered white and orange clay, inclusions and patches, occasional quartzite and igneous angular fragments, finely textured, moderately compacted.
310-315	Clay, medium brown, scattered quartz and quartzite and weathered igneous, sub-angular, pebbles and angular fragments, coarsely textured, moderately compacted.
315-320	Clay, as 310-315 above, rare limonite stained magnetitic shale.
320-330	Missing.
330-335	Pebble Clay, medium to light brown, common sub-rounded to rounded pebbles of clear, brown, white, pink, yellow, quartz, and scattered grey and greenish-grey quartzite, medium to clear textured, moderately compacted.
335-340	Pebble Clay, as 330-335 above.
340-345	Pebble Clay, as 330-335 above.
345-350	Pebble Clay, as 330-335 above.
350-355	Clayey Gravel, clear white, brown, rare yellow, orange and pink sub-rounded, pebbles up to ¼" diameter of quartzite and quartz set in medium brown coarsely textured clay matrix.
355-360	Clayey Gravel, as 350-355 above.
360-365	Clayey Gravel, as 350-355 above.
365-370	Clayey Gravel, as 350-355 above.
370-375	Clayey Gravel, as 350-355 above, rare orange clay patches, rare magnetitic shale plate fragments.

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BORE # 68

692251

DEPTH	STRATIGRAPHIC DESCRIPTION.
375-380	Clayey Gravel, as 350-355 above, scattered light to white grey clay patches.
380-385	Clayey Gravel, as 350-355 above, scattered orange-brown silt lenses, scattered carbonaceous matter and wood fragments.
385-390	Clay, medium brown, common pebbles of quartz and quartzite, igneous rock? rare ferruginous shale plates, scattered reddish, scattered carbonaceous wood fragments, coarsely textured, moderately compacted, brown sideritic fragments.
390-395	Clay, as 385-390 above.
395-400	Clay, as 385-390 above, but pebbles less common.
400-405	Clay, as 395-400 above, except scattered patches of light orange brown clay.
405-410	Clay, as 395-400 above.
410-415	Clay, as 395-400 above, scattered light brown and grey silt stringers.
415-420	Clay, medium brown and grey, scattered orange-brown, scattered angular fragments of quartz, quartzite, igneous rock, and some volcanic rock showing felspar laths, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.
420-425	Clay, as 415-420 above.
425-430	Clay, as 415-420 above, occasional ferruginous shale plate fragment.
430-435	Clay, as 415-420 above.
435-440	Clay, medium brown, occasional dark grey quartzite fragments, finely to medium textured, moderately compacted.
440-445	Clay, as 415-420 above.
445-450	Clay, as 425-430 above.
450-455	Clay, as 425-430 above.
455-460	Clay, as 425-430 above.
465-470	Clay, as 425-430 above.
470-475	Pebble Gravel, white, pink, light brown, pebbles of to 1/2" in diameter, sub-angular to sub-rounded, poorly sorted, quartz and quartzite, set in scattered medium brown and mottled white orange clay.

All samples: S 35/35/0

Q47|1 73-939

BORE # 69

692252

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light grey, scattered light yellow-brown clay stringers, scattered coarse grained light brown quartz, medium textured, moderately compacted.
5-10	Sandy Clay, light orange-brown, common, clear, light brown and orange, fine to medium quartz and white clay grains, coarsely textured, moderately compacted.
10-15	Sandy Clay, light yellow to brown, common, clear, light brown and orange, fine to medium grained quartz, coarsely textured, moderately compacted.
15-20	Sand, clear, white, light brown, yellow, orange, light grey and smokey, medium to coarse grained, sub-angular, poorly sorted, quartz, clean, rare white and yellow clayey interstitial material, scattered grains of dark grey chert, scattered grains of dolerite, loosely compacted.
20-25	Pebble Sand, clear, white, light brown, yellow, orange, smokey grey, coarse grained pebbles up to 1/8" diameter, sub-angular, poorly sorted quartz, fairly clean, scattered light brown and orange silty interstitial material, slight orange staining of about 20% of the grains, loosely compacted.
25-30	Pebble Sand, as 20-25 above except pebbles are sub-rounded, and up to ¼" diameter.
30-35	Clay, dark brown to black, scattered yellow, orange and red clay inclusions, scattered medium to coarse grained quartz, finely textured, moderately compacted.
35-40	Clay, as 30-35 above, scattered angular fragments of quartz and quartzite which are slightly orange stained,
40-45	Clay, medium to dark brown, scattered light orange-brown patches, scattered yellow and orange clay inclusions, common rounded clay pebbles and angular fragments of orange stained clear quartz and orange quartzite, finely textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, dark brown to black, scattered orange-brown patches and streaks, finely textured, moderately compacted.
55-60	Clay, medium grey, medium textured, well compacted.
60-65	Clay, as 55-60 above, slight greenish tinge.
65-70	Clay, as 60-65 above.
70-75	Clay, as 60-65 above, rare orange inclusions.
75-80	Silt, greenish-grey, rare fine grained quartz, rare reddish-brown siderite nodules, rare orange patches, finely textured, moderately compacted.
80-85	Silt, as 75-80 above, plus occasional carbonaceous wood fragments and angular fragments of yellow quartzite.
85-90	Gravel, angular fragments of basalt, quartzite and quartz some sub-angular to sub-rounded pebbles of quartz and quartzite, common light brown and orange silty matrix.

DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Gravel, as 85-90 above.
95-100	Gravel, as 85-90 above.
100-105	Gravel, as 85-90 above.
105-110	Silty Gravel, clear, white, yellow and orange pebbles up to 1/8" diameter of quartz and quartzite, common angular fragments and sub-rounded pebbles of basalt or dolerite set in light brown, orange and medium grey silty, clayey and sandy matrix.
110-115	Silt, medium grey, scattered white and orange patches and inclusions, scattered fine to coarse grained quartz, scattered angular fragments of black basalt and light yellow and clear quartzite, medium textured, moderately compacted.
115-120	Silt, as 110-115 above, rare mica.
120-125	Silt, as 110-115 above.
125-130	Silt, as 110-115 above.
130-135	Silt, as 110-115 above.
135-140	Silt, as 110-115 above.
140-145	Silt, as 110-115 above.
145-150	Silt, medium grey and brown, scattered dark grey shale fragments and black carbonaceous shale fragments, scattered angular fragments of dolerite.
150-155	Silt, as 145-150 above.
155-160	Silt, as 145-150 above.
160-180	Missing.
180-185	Silt, light grey, scattered carbonaceous matter, rare very coarsely grained of sub-rounded quartz, medium textured, moderately compacted.
185-190	Silt, light grey to white, scattered stringers of dark brown clay, rare orange clay inclusions, scattered carbonaceous wood fragments, scattered greenish grey patches, rare angular, finely to medium grained quartz, medium textured, moderately compacted.
190-195	Clay, medium brown, scattered lenses and patches of white and orange clay and silt, scattered carbonaceous wood fragments, scattered clear coarsely grained, sub-rounded quartz, medium to coarsely textured, moderately compacted.
195-200	Clay as 190-195 above.
200-205	Clay as 190-195 above.
205-210	Clay, as 190-195 above, rare angular fragments of orange quartzite.
210-215	Clay, as 205-210 above.
215-220	Silt, medium brown, scattered light grey to white stringers, scattered dark grey to black carbonaceous clay? inclusions, rare carbonaceous wood fragments, scattered black igneous pebbles up to 1/16" diameter, scattered fragments of indurated orange and brown silt, medium textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
220-225	Clay, medium brown, scattered white and orange lenses and inclusions scattered carbonaceous-wood fragments, scattered angular fragments of dolerite, scattered orange, angular fragments of quartzite, medium textured, moderately compacted.
225-230	Clay, as 220-225 above.
230-235	Clay, as 220-225 above, scattered ferruginous shale fragments (off drill pipe?)
235-240	Clay, medium brown, scattered white and orange clay inclusions, scattered light brown clear, sub-rounded, quartz, scattered fragments of dolerite, scattered yellow and red stained megnetitic shale fragments, finely to medium textured, moderately compacted.
240-245	Clay, as 235-240 above, scattered carbonaceous-wood fragments, scattered dolerite and quartzite angular fragments, occasional reddish-orange staining of a few quartz grains, no magnetitic shale fragments,
245-250	Clay, as 245-250 above, scattered dolerite fragments, but no sideritic clay fragments.
255-260	Clay, medium brown, scattered white, rare orange lenses and inclusions, rare reddish black ferruginous shale inclusions, scattered fragments of quartz, quartzite and dolerite, scattered and matter inclusions, medium textured, moderately compacted.
260-265	Clay, medium brown, light grey, scattered white and orange lenses, and inclusions, scattered dolerite fragments and rare clear, sub-rounded quartz.
265-270	Clay, as 260-265 above.
270-275	Clay, as 260-265 above.
275-280	Clay, as 260-265 above.
280-285	Clay, as 260-265 above.
285-290	Clay, light grey, scattered carbonaceous-wood fragments, scattered glassey orange mineral, medium textured, moderately compacted.
290-295	Clay, as 285-290 above.
295-300	Clay, light grey to white, light orange brown clay cluster and rare reddish-brown sideritic clay fragments, finely textured, moderately compacted.
300-305	Clay, as 295-300 above.
305-210	Clay, as 295-300 above.
310-315	Clay, as 295-300 above, scattered carbonaceous-wood fragments.
315-320	Clay, as 310-315 above, scattered greenish grey patches, occasional dolerite fragment.
320-325	Clay, as 315-320 above.
325-330	Clay, as 315-320 above, scattered orange glassy mineral.
330-335	Clay, as 315-320 above.
335-340	Clay, light grey, and light brown, rare orange specks, scattered medium orange-brown mineral? clusters, scattered carbonaceous-wood fragments, finely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION
340-345	Clay, as 335-340 above.
345-350	Clay, as 335-340 above.
350-355	Clay, as 335-340 above.
355-360	Clay, as 335-340 above.
360-365	Clay, light greenish grey, rare light pink and orange brown tinges, finely textured, moderately compacted.
365-370	Clay, light grey, scattered medium brown siderite nodules, medium textured, moderately compacted.
370-375	Clay, light grey, rare carbonaceous blebs and streaks, rare medium tan siderite nodules, fine to medium textured, moderately compacted.
375-380	Clay, as 370-375 above, scattered orange-brown glassy mineral
380-385	Clay, as 370-375 above.
385-390	Clay, as 365-370 above, rare angular fragments of quartzite
390-395	Clay, as 365-370 above, rare yellow-brown streaks and minute speck.
395-400	Clay, as 365-370 above, common large carbonaceous wood fragments,
400-405	Clay, light grey scattered reddish-brown siderite nodule clusters, scattered orange inclusions, rare carbonaceous specks, finely textured, well compacted.
405-410	Clay, as 400-405 above, rare carbonaceous wood fragments and rare angular fragments of quartzite.
410-415	Clay, as 400-405 above.
415-420	Clay, as 400-405 above, occasional yellow glassy mineral.
420-425	Clay, as 415-420 above.
425-430	Clay, light bluish-grey, scattered light brown and orange siderite nodule clusters, finely to medium textured, well compacted.
430-435	Clay, as 425-430 above.
435-440	Clay, as 425-430 above, scattered carbonaceous wood fragments.
440-445	Clay, light bluish-grey, scattered light brownish-grey and medium brown stringers, scattered siderite nodule clusters, medium textured, moderately compacted.
445-450	Clay, as 140-445 above
450-455	Clay, as 445-450 above.
455-460	Clay, as 445-450 above
460-465	Clay, as 445-450 above.
465-470	Clay, as 445-450 above.
470-475	Clay, as 445-450 above, scattered carbonaceous wood fragments.

DEPTH	STRATIGRAPHIC DESCRIPTION
475-480	Clay, as 470-475 above.
480-485	Clay, as 445-450 above.
485-490	Clay, as 470-475 above.
490-495	Clay, as 470-475 above.
495-500	Clay, as 445-450 above.
500-505	Clay, as 470-475 above.
505-510	Clay as 470-475 above.
510-515	Clay, as 470-475 above.
515-520	Clay, as 470-475 above.
520-525	Clay, as 470-475 above.
525-530	Clay, as 470-475 above.
530-535	Clay, as 470-475 above, rare glassy orange-brown silty inclusions.
535-540	Clay, as 445-450 above.
540-545	Clay, as 445-450 above.
545-550	Clay, as 445-450 above.
550-555	Clay, as 445-450 above.
555-560	Clay, as 445-450 above.
560-565	Clay, as 470-475 above.
565-570	Clay, as 445-450 above.
570-575	Clay, as 445-450 above.
575-580	Clay, as 445-450 above.
580-585	Clay, as 445-450 above.
585-590	Clay, as 445-450 above.
590-595	Clay, as 445-450 above.
595-600	Clay, as 445-450 above.
600-605	Clay, as 445-450 above.
605-610	Clay, as 445-450 above.
610-615	Clay, as 470-475 above.
615-620	Clay, as 470-475 above.
620-625	Clay, as 470-475 above.
625-630	Clay, as 470-475 above.
630-635	Clay, as 445-450 above.
635-640	Clay, as 530-535 above.
640-645	Clay, as 470-475 above.

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202

BORE # 70

692257

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, fawn, common medium-very coarse grains of clear and light brown, pink, sub-angular, poorly sorted, quartz, rare mica, scattered stringers, tan sandy silt, scattered pebbles up to 1/8" diameter of light brown, tan and clear quartz, coarsely textured.
5-10	Clay, tan, orange, waxy, scattered clear, white, brown and orange fine-medium grains of quartz, well compacted, finely textured.
15-20	Sandy silt, as 10-15 above, scattered weathered igneous grains and fragments.
20-25	Dolerite, weathered.
25-30	Dolerite, weathered.
30-35	Dolerite
35-40	Dolerite

Tb?

/ All samples : S35/35/0

BORE No.72

Q47/1 73-939
692258

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, light brown, yellow, minor orange and white, medium to coarsely textured, moderately compacted, scattered very fine grains of quartz.
5-10	Clayey silt, yellow, brown, minor orange, coarsely textured, loosely compacted, scattered dark brown clay stringers.
10-15	Clay, light grey, light brown, pink, reddish brown, fine to medium textured, moderately compacted, scattered clayey silt, as 5-10 above.
15-20	Clay, light grey, white, light brown, minor tinges of orange and reddish brown, fine to medium textured, moderately compacted.
20-25	Silty clay, very light grey, common silty material, coarsely textured, moderately compacted.
25-30	Silty clay, as 20-25 above, scattered white and light orange and brown clay.
30-35	Silty clay, as 25-30 above.
35-40	Silty clay, as 25-30 above.
40-45	Clay, light grey and white, minor orange, medium to coarsely textured, rare light silt, medium textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, as 40-45 above.
55-60	Silty clay, light grey and white, coarsely textured, moderately compacted.
60-65	Silty clay, as 55-60 above, plus scattered pink silty clay.
65-70	Silty clay, as 60-65 above.

All samples : S/35/35/0

204

Q47/1 73-939

BORE # 73

692259

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, light fawn, scattered coarsely grained, sub-rounded, clear, brown and orange quartz, slight reddish orange ferruginous staining of some of the quartz, medium textured, loosely compacted.
5-10	Pebble Sand, clear, white, light brown, very coarse grained, sub-angular to angular, poorly sorted quartz and quartzite and angular quartz fragments (broken boulders) set in light brown and orange silty interstitial material, rare minute carbonaceous fragments, loosely compacted.
10-15	Pebble Sand, clear, white, light brown, yellow, orange and pink, very coarse grained to pebbly, sub-angular, poorly sorted, quartz, very dirty common light brown and orange silty interstitial material, rare white clay inclusions, rare dark reddish-brown clay inclusions.
15-20	Pebble Sand, clear, white, yellow, orange, smokey light brown, medium to very coarse grained and pebbly, sub-angular to sub-rounded, poorly sorted quartz, very dirty, common white clayey and minor orange silty interstitial material, scattered rusty orange brown and red staining of about 2% of grains, loosely compacted.
20-25	Pebble Sand, as 15-20 above except common orange silty interstitial material.
25-30	Clay, medium orange-brown, scattered white clay inclusions, scattered, sub-rounded, very corase grained of quartz and quartzite, finely textured, moderately compacted.
30-35	Clay, as 25-30 above.
35-40	Clay, as 25-30 above, occasional medium brown sideritic clay bands.
40-45	Clay, as 30-35 above.
45-50	Clay, as 30-35 above.
50-55	Clay, as 30-35 above, only light orange-brown.
55-60	Clay, as 30-35 above.
60-65	Clay, as 50-55 above.
65-70	Clay, as 50-55 above.
70-75	Clay, light fawn scattered stringers of medium orange-brown, finely textured, well compacted.
75-80	Clay, medium orange, brown and scattered fawn stringers, scattered very finely divided mica.
80-85	Clay, dark greyish brown, rare carbinaceous matter inclusions, scattered sub-rounded to sub-angular quartz grains, finely textured, moderately compacted.
85-90	Clay, as 80-85 above.
90-95	Clay, as 80-85 above.
95-100	Clay, as 80-85 above.
100-105	Clay, as 80-85 above.
105-110	Clay, as 80-85 above.

.../ 2

DEPTH	STRATIGRAPHIC DESCRIPTION
110-115	Clay, as 80-85 above.
115-420	Clay, as 80-85 above.
120-125	Clay, as 80-85 above.
125-130	Clay, as 80-85 above.
130-135	Clay, as 80-85 above.
135-140	Clay, as 80-85 above, rare medium brown inclusions, rare dolerite fragments.
140-145	Clay, as 80-85 above, slight orange-brown tinges.
145-150	Clay, medium grey and brown, scattered very finely divided mica, finely textured, well compacted.
150-155	Clay, as 80-85 above.
155-160	Clay, as 80-85 above.
160-165	Clay, as 80-85 above.
165-170	Clay, as 140-145 above.
170-175	Clay, as 140-145 above.
175-180	Clay, as 140-145 above, rare rose coarsely grained, sub-rounded, quartz.
180-185	Clay, as 140-145 above.
185-190	Silt, mottled light orange brown and white scattered very coarse grained quartz and quartzite, coarsely textured, moderately compacted.
190-195	Silt, white to light brown, scattered well rounded coal and carbonaceous wood grains, scattered medium grey clay stringers, medium textured, moderately compacted.

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BORE # 74

Q47/1 73-939

692261

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silty Pebble Sand, clear, minor orange and light brown, coarse grained to pebbles ¾" in diameter, sub-angular to sub-rounded, poorly sorted, quartze and quartzite set in light orange brown silty matrix, loosely compacted.
5-10	Silty Pebble Sand, as 0-5 above, orange silty matrix.
10-15	Silty Pebble Sand, as 0-5 above.
15-20	Silty Pebble Sand, as 5-10 above, plus angular fragments of dark reddish brown and light blue shale.
20-25	Silt, light brown and orange, scattered black coarse mud inclusions, rare angular quartz fragments, scattered orange waxy clay grains, medium textured, moderately compacted.
25-30	Silt, as 25-30 above.
30-35	Silt, as 25-30 above.
35-40	Silt, as 25-30 above.
40-45	Silt, as 25-30 above, becoming sandy common orange and yellow fine grained quartze and rounded orange waxy clay nodules.
45-50	Silt, as 40-45 above.
50-55	Silt, as 40-45 above.
55-60	Gravel Sand, medium to dark reddish and orange grains of weathered clayey igneous rock? rare clear angular to sub-rounded quartz pebbles up to 1/16" diameter loosely compacted (set in brown silty matrix?)
60-65	Gravel Sand, as 55-60 above.
65-70	Gravel Sand, as 55-60 above.
70-75	Gravel Sand, as 55-60 above.
75-80	Gravel Sand, as 55-60 above, scattered angular, clear and white quartz, rare reddish brown shale.
80-85	Gravel Sand, as 75-80 above.
85-90	Gravel Sand, as 75-80 above.
90-95	Igneous Rock? reddish brown and yellow and black angular fragments.
95-100	Igneous Rock, as 90-95 above.
100-105	Igneous Rock, as 90-95 above.
105-110	Igneous Rock, as 90-95 above.
110-115	Igneous Rock, as 90-95 above.
115-120	Weather Basalt, black, scattered angular quartz fragments.
120-125	Weather Basalt, as 115-120 above.
125-130	Weather Basalt, as 115-120 above.

All samples are S 34/34/0

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BORE # 75

Q4711 73-939

S 34/34/0

DEPTH	STRATIGRAPHIC DESCRIPTION	692262

0-5	Sand, light brown, yellow, orange, grey, clear, coarse to very coarse grained, sub-rounded to angular fragments, quartz, very dirty common light brown and orange silty interstitial material, common dolerite fragments, scattered black quartz? friable, loosely compacted, orange ferruginous staining on 50% of quartz grain.
5-10	Gravel Sand, very coarse grain and pebbles up to 1/8" diameter sub-angular to sub-rounded, medium sorted, dolerite grains set in light orange-brown silty matrix, loosely compacted.
10-15	Gravel Sand, as 5-10 above.
15-20	Gravel Sand, very coarse grain and pebbles up to 1/8" diameter, sub-angular to sub-rounded, medium sorted, dolerite grains set in light orange-brown silty matrix, loosely compacted, common waxy medium orange-tan clay pebbles set in silty matrix.
20-25	Gravel Sand, as 15-20 above.
25-30	Gravel Sand, as 15-20 above.
30-35	Gravel Sand, as 15-20 above.
35-40	Gravel Sand, as 15-20 above.
40-45	Clay, yellowish to orange-brown, rare white lenses, scattered coarse grain of sub-angular to sub-rounded dolerite, medium textured, moderately compacted.
45-50	Clay, as 40-45 above.
50-55	Clay, yellowish to orange-brown, rare white lenses, scattered coarse grain of sub-angular to sub-rounded dolerite, medium textured, moderately compacted, scattered red-brown ferruginous clay nodules.
55-60	Clay, yellow-brown, light grey stringers, finely textured, moderately compacted.
60-65	Clay, as 55-60 above.
65-70	Clay, medium orange-brown, scattered red brown sideritic clay grains and scattered coarse grained orange quartz, finely textured, moderately compacted.
70-75	Clay, medium orange-brown and brown, scattered angular large fragments of dolerite, finely textured, moderately compacted.
75-80	Silty Clay, medium to dark brown, medium orange brown, and minor lithic medium grey silt stringers, coarsely textured, moderately compacted.
80-85	Pebble Clay, orange, common sub-angular to angular pebbles of dolerite, coarsely textured, moderately compacted.
85-90	Silt, medium to dark brown, orange, white, grey common reddish black coarse to medium coarsely textured, loosely to moderately compacted.
90-95	Silty Clay, very dark reddish brown to black, may be carbonaceous? scattered white and orange clay specks, coarsely textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION 692263
95-100	Silty Clay, as 90-95 above.
100-105	Silty Clay, medium-dark grey and brown, scattered yellow-orange silt inclusions and lenses, scattered black and carbonaceous mud lenses, very silty, coarsely textured, moderately compacted.
105-110	Silty Clay, medium-dark grey and brown, scattered yellow-orange silt inclusions and lenses, scattered yellow silt lenses, very silty, coarsely textured, moderately compacted.
110-115	Silty Clay, as 100-105 above.
115-120	Silty Clay, as 100-105 above.
120-125	Silty Clay, as 100-105 above, less silty.
125-130	Clay, medium grey, scattered yellow and white and orange silty stringers, scattered carbonaceous wood fragments and coal streaks, scattered reddish-brown sideritic clay pebbles up to 1/8" diameter, coarsely textured, moderately compacted.
130-135	Clay, as 125-130 above.
135-140	Silty Clay, as 125-130 above.
140-145	Carbonaceous Mud - black, rare orange specks.
145-150	Carbonaceous Mud - black, rare orange specks.
150-155	Carbonaceous Mud - as 140-145 above.
155-160	Carbonaceous Mud, as 140-145 above.
160-165	Carbonaceous Mud, as 140-145 above.
165-170	Carbonaceous Mud, as 140-145 above.
170-175	Carbonaceous Mud, as 140-145 above.
175-180	Carbonaceous Mud, as 140-145 above, becoming silty in places.
180-185	Carbonaceous Mud, as 140-145 above, rare yellow and orange silt lenses.
185-190	Carbonaceous Mud, as 180-185, but scattered yellow and orange silt lenses.
190-195	Carbonaceous Mud, as 185-190 above.
195-200	Clay, very dark brown, scattered carbonaceous mud lenses, scattered medium to light grey and rare yellow clay inclusions, finely textured, moderately compacted (plastic).
200-205	Clay, as 195-200 above.
205-210	Clay, as 195-200 above.
210-215	Clay, medium to dark greyish-brown, scattered medium tan and yellowish lenses, rare carbonaceous mud inclusions, fine textured, moderately compacted.
215-220	Clay, as 210-215 above.
220-225	Clay, as 210-215 above.
225-230	Clay, as 210-215 above.

DEPTH	STRATIGRAPHIC DESCRIPTION	692264

230-235 Clay, dark brown, rare light fawn and light grey lenses and stringers, scattered clay, orange inclusions, finely textured, moderately compacted.

235-240 Clay, as 230-235 above, except becoming silty.

240-245 Clay, dark brown, rare light fawn, scattered yellow and orange silt lenses and patches, medium to coarsely textured, moderately compacted.

245-250 Clay, light and medium grey scattered white and rare orange inclusions, scattered carbonaceous matter and wood fragments, rare orange brown sideritic clay fragments, ferruginous nodules, rare bright purplish blue mineral (vivianite), rare mica, medium to coarsely textured, moderately compacted.

250-255 Clay, as 245-250 above, but no vivianite.

255-260 Clay, as 250-255 above.

260-265 Clay, medium grey scattered light grey and dark brown, rare orange inclusions, scattered carbonaceous matter and wood fragments, scattered orange-brown sideritic clay fragments, medium textured, moderately compacted.

265-270 Clay, as 255-260 above.

270-275 Clay, as 255-260 above.

275-280 Clay, as 255-260 above.

280-285 Clay, as 255-260 above, rare orange silt lenses.

285-290 Clay, as 280-285 above.

290-295 Clay, as 280-285 above.

295-300 Clay, as 280-285 above.

300-305 Clay, as 280-285 above, except coarsely textured and becoming silty.

305-310 Clayey Silt, medium grey, scattered yellow and orange patches, scattered carbonaceous matter and wood fragments.

310-315 Sand, clear minor light brown and rare orange, fine grained, sub-angular to sub-rounded, medium sorted, quartz very dirty common light brown silty interstitial material, scattered medium brown clay, stringers and rare yellow to orange silt lenses, scattered small carbonaceous wood fragments, loosely to moderately compacted.

315-320 Sand, clear, light brown, minor yellow and orange, finely grained, sub-angular to sub-rounded, medium to well sorted, quartz, dirty common light brown and rare orange silty interstitial material, rare carbonaceous grains, rare orange clay inclusions, occasional white or light grey clay pieces, friable, loosely compacted, rare yellow and orange ferruginous staining on few grains.

320-325 Sand, as 315-320 above, but very silty, fine to medium grained, sub-angular, poorly sorted, quartz.

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DEPTH	STRATIGRAPHIC DESCRIPTION	692265

325-330 Silty Sand, clear, light brown, rare yellow, finely grained, sub-angular, medium sorted, quartz, extremely dirty common light brown and rare orange silty and clayey interstitial material, rare to scattered carbonaceous mud and wood fragments, scattered ferruginous nodules and orange-brown sideritic material, loosely to moderately compacted.

330-335 Sandy Silt, medium to dark grey, scattered yellow and yellowish brown silt lenses, rare white clay inclusions, scattered carbonaceous wood fragments, scattered brown quartz? aggregates, scattered ferruginous and sideritic clay pebble inclusions, coarsely textured, moderately compacted.

335-340 Clay, medium grey, rare orange specks and patches, scattered carbonaceous wood fragments, scattered light brown, slightly silty, medium to coarsely textured, moderately compacted.

340-345 Clay, as 335-340 above, scattered orange silt lenses, minor very coarsely grained quartz.

345-350 Clay, as 340-345 above.

350-355 Clay, as 340-345 above.

355-360 Clay, as 340-345 above.

360-365 Clay, as 340-345 above.

365-370 Clay, medium to light grey, medium to dark reddish brown, scattered yellow and orange inclusions, scattered dark brown, rounded, ferruginous clay nodules, medium textured, moderately compacted.

370-375 Clayey Sand, medium grey, rare white, common sandy lenses, scattered orange brown and rare black clay grains and occasional very coarse grained quartz set in clay matrix, coarsely textured, moderately compacted.

375-380 Sandy Clay, medium grey, scattered white, orange and yellow scattered lenses of silt, clear, fine to coarse quartz grains, scattered orange-brown quartz clusters, scattered carbonaceous wood fragments, coarsely textured, moderately compacted.

380-385 Sandy Silt, medium grey, scattered white stringers, scattered carbonaceous wood fragments, occasional very coarsely grained to small pebbles of sub-rounded quartz, coarsely textured, moderately compacted.

385-390 Sandy Silt, as 380-385 above.

390-395 Sandy Silt, as 380-385 above.

395-400 Sandy Silt, as 380-385 above.

400-405 Sandy Silt, as 380-385 above.

405-410 Sandy Silt, as 380-385 above.

410-415 Sandy Silt, as 380-385 above.

415-420 Clay, medium greyish-brown, scattered white silty clay stringers, rare orange brown silt patches and inclusions, scattered carbonaceous wood fragments and bright coal, scattered coarsely grained brown quartz, coarsely textured, moderately compacted.

DEPTH	STRATIGRAPHIC DESCRIPTION 692266
420-425	Silty Clay, as 410-415 above.
425-430	Silty Clay, medium greyish borwn, scattered yellow and orange clay inclusions, scattered coarse grained of clear and light brown quartz, coarsely textured, moderately compacted.
430-435	Sand, clear, minor light grey and brown, rare orange, medium to very coarse grained, sub-angular, poorly sorted, quartz, very dirty, scattered silty interstitial material, scattered minute carbonaceous fragments rare quartz pebbles up to 1/16" diameter, scattered orange quartz clusters, loosely compacted.
435-440	Sand, as 430-435 above.
440-445	Silty Sand, as 430-435 above, scattered orange and yellow silt lenses, rare ferruginous clay inclusions.
445-450	Silty Sand, as 430-435 above, scattered stringers light orange brown silt.
450-455	Silty Sand, as 430-435 above except very silty.
455-450	Silty Sand, as 430-435 above.

All samples are S 34/34/0

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DEPTH	STRATIGRAPHIC DESCRIPTION 692267
0-5	Clay, mottled, medium brown, orange, medium grey, scattered fine to medium clear quartz grains, coarsely textured, moderately compacted.
5-10	Clay, light yellowish brown, rare medium to dark brown clay, minute clay inclusions, medium textured, moderately compacted.
10-15	Clay, medium yellowish brown, scattered dark brown and grey lenses scattered reddish-brown ferruginous? clay inclusions
15-20	Clay, mottled brownish-orange and medium greyish-brown scattered medium grained clear quartz, coarsely textured, moderately compacted
20-25	Silty Clay, orange, dark greyish brown and rare fawn stringers and lenses, scattered stringers of silt, scattered fine to medium quartz, coarsely textured, moderately compacted.
25-30	Clay, medium grey, scattered coarse grains of ferruginous clay, medium to coarsely textured, moderately compacted.
30-35	Clay, mottled medium grey and orange, silty in places, occasional medium brown quartz clusters, rare reddish-brown ferruginous clay pebbles, coarsely textured, moderately compacted.
35-40	Clay, light grey, brown, orange, medium brown streaks and stringers, silty stringers, rare mica, scattered orange-brown limonitic clay nodules, coarsely textured, moderately compacted.
40-45	Clay, light grey, medium grey and fawn, scattered sub-rounded, angular, yellow and orange hard silt pebble fragments, coarsely textured, moderately compacted.
45-50	Clay as 40-45 above.
50-55	Sand, predominantly orange and clear, minor light brown, yellow finely to medium grained, sub-angular, medium sorted quartz, very dirty, common orange clayey and light brown silty interstitial material, scattered carbonaceous wood fragments, scattered lenses of orange silt, loosely compacted.
55-60	Sand, as 50-55 above, common carbonaceous wood fragments.
60-65	Clay, medium brown, grey, orange, yellow and stringers, silty in places, common carbonaceous wood fragments (40%), coarsely textured, moderate to loosely compacted.
65-70	Clay, as 60-65 above (25%), carbonaceous wood fragments 75%
70-75	Clay, as 65-75 above
75-80	Clay, mottled medium light grey, scattered carbonaceous wood fragments and carbonaceous mud.
80-85	Clay, dark brown to black, common carbonaceous black clay and wood fragments, scattered lenses of orange silt, finely textured, moderately compacted.
85-90	Clay, as 80-85 above and medium grey clay stringers.

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DEPTH	STRATIGRAPHIC DESCRIPTION
90-95	Clay, medium grey, dark brown and orange, scattered carbonaceous wood fragments, plastic, finely textured, moderately compacted.
95-100	Carbonaceous Wood fragments and clay as 90-95 above.
100-105	Clay, light medium grey, scattered carbonaceous wood fragments, finely to medium textured, moderately compacted.
105-110	Clay, as 100-105 above
110-115	Clayey Sand, clear, light brown, finely to medium grained, sub-angular, sub-rounded, medium sorted quartz, very dirty common light brown silty and medium greyish brown clayey interstitial, scattered carbonaceous wood fragments, loosely compacted.
115-120	Clay, medium orange-brown, plastic, scattered carbonaceous wood fragments
120-125	Clay, medium steel grey, scattered carbonaceous wood fragments, finely-textured, moderately compacted, plastic.
125-130	Clayey Sand as 110-115 above, scattered orange silt and sand lenses, common carbonaceous matter and wood fragments.
130-135	Clayey Sand, clear, light brown, orange finely to medium grained sub-angular, medium sorted quartz, extremely dirty, common orange-brownand grey clay plastic matrix, common carbonaceous mud and wood fragments.
135-140	Sandy Clay, medium and light brown, rare orange, common carbonaceous wood fragments, scattered lenses and grains of finely grained, sub-rounded, medium-sorted quartz, coarsely textured, moderately compacted.
140-145	Clay, medium brown, light to medium grey, scattered orange, scattered orange silt stringers, common carbonaceous wood fragments 50%, finely to medium textured, moderately compacted.
145-150	Clay, light, medium, dark brown, orange, plastic, scattered carbonaceous wood fragments, finely textured, moderately compacted.
150-155	Clay, as 145-150 above.
155-160	Clay as 145-150 above
160-165	Clay as 145-150 above
165-170	Clay as 145-150 above, rare orange silt stringers.
170-175	Clay as 145-150 above
175-180	Clay, medium grey, light grey to white, scattered medium brown and orange stringers, scattered carbonaceous wood fragments, scattered orange-brown sideritic clay angular fragments, coarsely textured, moderately compacted.
180-185	Clay, as 175-180 above
185-190	Clay, as 175-180 above, no sideritic fragments
190-195	Clay, as 185-190 above

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DEPTH	STRATIGRAPHIC DESCRIPTION
195-200	Clay, dark brown, orange, minor light grey, stringers, common carbonaceous wood fragments, scattered fragments of orange silt, medium textured, moderately compacted.
200-205	Clay, as 195-200 above.
205-210	Clay, medium grey, medium to dark brown, orange, yellow, scattered light-grey to white stringers, scattered carbonaceous wood fragments, scattered reddish-brown and orange sideritic clay and silt fragments, coarsely textured, moderately compacted.
210-215	Carbonaceous Mud and Clay, black, dark brown, orange lenses, scattered carbonaceous wood fragments, common medium grained brown quartz, coarsely textured, moderately compacted.
215-220	Carbonaceous Mud as 210-215 above.
220-225	Carbonaceous Mud, black, rare to scattered yellow and orange clay inclusions, medium textured, moderately compacted.
225-230	Carbonaceous Mud, as 220-225 above
230-235	Carbonaceous Mud, as 220-225 above
235-240	Carbonaceous Mud, as 220-225 above
240-245	Carbonaceous Mud, as 210-215 above
245-250	Carbonaceous Mud, as 220-225 above
250-255	Carbonaceous Mud, as 220-225 above
255-260	Carbonaceous Mud, as 220-225 above
260-265	Carbonaceous Mud, as 210-215 above
265-270	Carbonaceous Mud, as 210-215 above
270-275	Carbonaceous Mud, as 210-215 above
275-280	Carbonaceous Mud, as 210-215 above
280-285	Carbonaceous Mud, as 210-215 above
285-290	Clay, medium tan, scattered carbonaceous wood fragments, scattered medium tan, fine to medium grained, sub-rounded quartz? nodules, scattered orange clay inclusions (plastic) finely to medium textured, moderately compacted.
290-295	Clay, as 285-290 above
295-300	Clay, as 285-290 above
300-305	Clay, as 285-290 above, scattered yellow clay lenses
305-310	Clay, as 285-290 above
310-315	Clay, as 285-290 above
315-320	Clay, dark brown, common, carbonaceous wood fragments, finely textured, plastic, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
320-325	Clay as 315-320 above
325-330	Clay, as 315-320 above
330-335	Clay, as 315-320 above, rare yellow lenses
335-340	Clay, as 315-320 above
340-345	Clay, as 315-320 above, except sandy finely grained clear and light brown quartz
345-350	Clay, as 340-345 above
350-355	Clay, as 340-345 above
355-360	Sandy Clay, as 340-345 above
360-365	Sandy Clay, as 340-345 above
365-370	Clay, medium brown, common (50%) carbonaceous wood fragments finely textured, plastic, moderately compacted.
370-375	Clay, as 365-370 above, except scattered orange clay lenses
375-380	Clayey Sand, light brown, clear, yellow, finely grained, sub-angular to sub-rounded, medium to well sorted quartz, very dirty common medium brown plastic clay matrix, common carbonaceous wood fragments, loosely compacted.
380-385	Sandy Clay, medium brown, scattered carbonaceous wood fragments, common, light brown, orange, yellow and clear finely grained, sub-rounded quartz, finely to coarsely textured, plastic, moderately compacted.
385-390	Sandy Clay, medium brown, light brown, grey, yellow and minor orange, scattered carbonaceous wood fragments, common, clear, light brown, orange and yellow finely to medium grained, sub-angular, poorly sorted quartz grains set in plastic clay matrix, coarsely textured, loosely to moderately compacted.
390-395	Carbonaceous Wood Fragments (75%) clay, yellow and orange, finely textured, plastic.
395-400	Clay, medium to light brown, yellow and orange, common carbonaceous wood fragments, finely textured, plastic
400-405	Sandy Clay, as 385-390 above
405-410	Sandy Clay, as 385-390 above
410-415	Clay, light orange-brown, scattered inclusions of dark brown and yellow clay, scattered carbonaceous wood fragments, scattered silt stringers, finely to coarsely textured, plastic.
415-420	Clay, medium orange-brown and light fawn, scattered carbonaceous wood fragments, scattered yellow streaks, slightly sandy, finely textured plastic.
420-425	Clay, as 415-420 above, scattered light orange stringers.

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DEPTH	STRATIGRAPHIC DESCRIPTION
425-430	Sandy Clay, as 385-390 above
430-435	Sandy Clay, as 385-390 above
435-440	Silty Sand, medium to light grey, clear, minor light brown and orange, very finely to medium grained, sub-angular, poorly sorted quartz, very dirty, common light brown silty interstitial, scattered carbonaceous wood fragments, friable, loosely compacted.
440-445	Silty Clay, light fawn, rare to scattered white and yellow clay inclusions, common (50%) carbonaceous wood fragments, coarsely textured, moderately compacted.
445-450	Clay, as 440-445 above, but not silty.
450-455	Clay, as 440-445 above, but not silty.
455-460	Silty Clay (30%) as 440-445 above, but scattered very light, greenish-white, finely textured silt and carbonaceous wood fragments (70%)
460-465	Carbonaceous Wood fragments 80%, clay as 455-460 above
465-470	Carbonaceous Wood fragments 80%, clay light fawn and medium brown, scattered light brown silty patches, medium to coarsely textured, loosely to moderately compacted.
470-475	Carbonaceous Wood fragments 90%, clay as 455-460 above.
475-480	Carbonaceous Wood fragments, rare clay as above
480-485	Clay, medium to dark brown, scattered greenish-white finely textured silt (tuff)?, scattered to common carbonaceous wood fragments, rare orange glassy mineral, coarsely textured, moderately compacted.
485-490	Carbonaceous Wood fragments and clay as in 465-470 above, plus scattered very light-greenish-white silt (tuff?)
490-495	Carbonaceous Wood fragments and clay as 485-470 above
495-500	Carbonaceous Wood fragments 95% clay as 485-490 above.

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BORE # 77

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DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, orange, waxy, finely textured, moderately compacted.
5-10	Clay, orange, waxy, medium textured, moderately compacted.
10-15	Clay, mottled orange, yellow, medium grey and brown, medium textured moderately compacted.
15-20	Clay, as 10-15 above, rare finely divided carbonaceous fragments
20-25	Clay, orange-brown, waxy, finely-textured, moderately compacted.
25-30	Sand, clear, yellow, light brown, finely to medium grained, sub-angular, medium sorted quartz, very dirty; common orange silty and clayey interstitial material, scattered dark reddish-brown ferruginous nodules, loosely compacted.
30-35	Sand, yellow, light brown, rare clear, pink medium grained, sub-angular, sub-rounded, medium to well sorted quartz, dirty, common, orange, silty and clayey interstitial material, scattered finely divided carbonaceous wood fragments, scattered white clay grains
35-40	Sand, as 30-35 above
40-45	Sand, as 30-35 above, but grains are medium brown.
45-50	Clay, light medium grey, scattered yellow and orange stringers, common carbonaceous wood fragments and specks, plastic, finely textured, moderately compacted.
50-55	Clay, light fawn, minor pink and scattered orange clay inclusions, scattered carbonaceous wood fragments, medium-textured, moderately compacted.
55-60	Clay, as 50-55 above, rare coarsely grained quartz
60-65	Clay, as 50-55 above, except common carbonaceous wood fragments
65-70	Clay, as 60-65 above
70-75	Clay, medium brown, light fawn, orange, minor yellow, white stringers and lenses, scattered carbonaceous wood fragments, occasional coarsely grained clear quartz, medium to coarsely textured, moderately compacted.
75-80	Clay, as 70-75 above
80-85	Clay, as 70-75 above
85-90	Clay, as 70-75 above
90-95	Clay, as 70-75 above
95-100	Clay, as 70-75 above
100-105	Clay, as 70-75 above, rare mica
105-110	Clay, mottled, light grey, white, fawn, yellow, orange, medium brown, scattered carbonaceous wood fragments, rare fine grains of clear quartz, medium textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
110-115	Clay, as 105-110 above
115-120	Clay, as 105-110 above, except coarsely textured, scattered lenses of yellow silt
120-125	Clay, as 115-120 above
125-130	Clay, light to medium brown, orange, yellow, white, minor light grey, stringers and lenses, rare red specks, scattered to common carbonaceous wood fragments, coarsely textured, moderately compacted.
130-135	Clay, as 125-130 above
135-140	Clay, as 125-130 above
140-145	Dolerite, black, slightly weathered
145-150	Dolerite, as 140-145 above
150-155	Dolerite
155-200	Dolerite

All samples S/34/34/0

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Silt, medium brown, coarsely textured, loosely to moderately compacted.
5-10	Sandy Silt, dark brown, common medium to very coarsely grained, sub-angular, clear, light brown and yellow quartz, coarsely textured, loosely compacted.
10-15	Silty Sand, clear, yellow, orange, light smokey grey, rare white, medium to coarsely grained, sub-angular, medium to poorly sorted, quartz, dirty, common yellow, silty interstitial material, common multi-coloured clay grains, 25% of grains have orange ferruginous staining, 10% of clear quartz have very finely divided carbonaceous specks? adhering to them.
15-20	Sand, clear, smokey grey, orange, yellow, pink, light brown, medium to very coarsely grained, sub-angular to sub-rounded, poorly sorted quartz, scattered yellow silt fragments and yellow, orange clay grains, scattered carbonaceous mud fragments, staining as 10-15 above.
20-25	Pebble Sand, very coarsely grained and pebbles up to ¼" diameter of sub-rounded, poorly sorted clear, white, pink and light brown quartz and dolerite set in light brown silty matrix.
25-30	Silt, medium orange-brown, common sub-rounded, clear and rose coloured pebbles of quartz and dolerite, coarsely textured, moderately compacted.
30-35	Silty Clay, medium orange-brown, common silt and finely grained quartz set in clay matrix, coarsely textured, moderately compacted.
35-40	Sand, clear, light brown, orange, pink, coarsely grained, sub-angular to sub-rounded, medium to poorly sorted, quartz fairly clean, scattered brown Silty interstitial material, common white, orange and yellow clay grains, loosely compacted.
40-45	Clay, medium brown, scattered yellow and orange streaks and inclusions, coarsely textured, moderately compacted.
45-50	Silty Sand, clear, light brown, finely to medium grained, sub-angular medium sorted, quartz set in a dark brown clayey and silty matrix. Common white and orange clay grains, moderately compacted.
50-55	Clay, dark brown, scattered orange, yellow and white patches common, coarsely grained quartz, coarsely textured, moderately compacted.
55-60	Clay as 50-55 above.
60-65	Clay as 50-55 above
65-70	Clay, dark chocolate brown, scattered orange, white, yellow clay inclusions, scattered sub-rounded, coarsely grained quartz, fine to medium textured, moderately compacted.
70-75	Clay, alternating dark brown and light grey bands, rare, coarsely grained, sub-rounded quartz, finely to medium textured, moderately compacted.
75-80	Clay, predominantly light grey, minor dark brown, thin stringers and streaks, rare orange clay inclusions, occasional light yellow silt lenses, medium to coarsely textured, moderately compacted.

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DEPTH	STRATIGRAPHIC DESCRIPTION
80-85	Clay as 75-80 above
85-90	Sandy Silt, light grey, white common finely to coarsely grained clear quartz, coarsely textured, moderately to loosely compacted.
95-100	Silty Sand, clear, light yellow and brown, finely to coarsely grained, sub-angular, poorly sorted, quartz very dirty, common light brown silty interstitial material, scattered carbonaceous wood fragments, loosely compacted.
100-105	Sandy Silt as 85-90 above, common carbonaceous wood fragments
105-110	Sandy Silt as 100-105 above.
110-115	Sandy Silt as 100-105 above
115-120	Sandy Silt as 100-105, scattered carbonaceous wood fragments
120-125	Sandy Silt as 115-120 above
125-130	Silty Sand as 95-100 above
130-135	Silty Sand as 45-50 above
135-140	Silty Sand, clear, finely to coarsely grained, sub-angular, poorly sorted quartz, very dirty, common light grey Silty interstitial material, scattered carbonaceous wood fragments, loosely compacted.
140-145	Silty Sand as 135-140 above.
145-150	Sand, clear, light brown finely to coarsely grained, sub-angular, medium to poorly sorted quartz, very dirty, common light brown silty medium grey, clayey interstitial matter, scattered carbonaceous wood fragments, loosely compacted.
150-155	Sand as 145-150 above.
155-160	Sand as 145-150 above.
160-165	Sand, clear and light brown, finely to coarsely grained, sub-angular, poorly sorted quartz, very dirty, common light brown silty and medium brown Clayey interstitial material, scattered carbonaceous wood fragments, loosely compacted.
165-170	Sand as 160-165 above
170-175	Silty Clay, dark brown, scattered carbonaceous wood fragments, common light brown silt size and finely to medium grained clear quartz, coarsely textured, moderately compacted.
175-180	Silty Clay, as 170-175 above
180-185	Silty Clay, as 170-175 above
185-190	Silty Clay, as 170-175 above, becoming less sandy and silty.
190-195	Silty Clay, as 185-190 above, scattered orange clay inclusions
195-200	Clay, dark brown, rare light grey streaks, scattered light orange silt streaks, scattered very coarsely grained, sub-rounded clear quartz, medium to coarsely textured, moderately compacted

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DEPTH	STRATIGRAPHIC DESCRIPTION
200-205	Clay, as 195-200 above
205-210	Clay, as 195-200 above
210-215	Clay, dark brown, finely-textured, moderately compacted.
215-220	Clay, light to medium grey, waxy, scattered, coarsely grained and pebbles of clear to pink quartz up to 1/16" diameter, fragments of hard multi-coloured silt, finely textured, moderately compacted.
220-225	Clay, light grey and medium brown, waxy, scattered fragments of hard multi-coloured silt, coarsely textured, moderately compacted.
225-230	Silt, medium grey, scattered stringers of medium grey clay, occasional angular pebbles of clear quartz, coarsely textured, moderately compacted.
230-235	Silt, as 225-230 above, scattered smokey grey and clear quartz pebbles
235-240	Silt as 230-235 above, common scattered black dolerite fragments.

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BORE # 80

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692277.

DEPTH	STRATIGRAPHIC DESCRIPTION
0-5	Clay, dark orange-brown, waxy, finely textured, moderately compacted (plastic)
5-10	Silty Clay, dark to medium brown, scattered reddish-brown, ferruginous nodules, coarsely-textured, earthy, loosely to moderately compacted, common grass roots.
10-15	Clay, mottled, light grey and orange, plastic, finely textured, well compacted.
15-20	Clay, mottled medium-brown, light grey to white and orange, plastic, finely textured, well compacted.
20-25	Clay, orange-brown, scattered minute carbonaceous fragments, plastic, finely-textured, well compacted.
25-30	Clay, red, medium-brown, orange, plastic, finely textured, well compacted.
30-35	Clay, very dark brown to black, occasional orange lenses and inclusions, finely textured, plastic, well compacted.
35-40	Clay, as 30-35 above.
40-45	Clay, as 15-20 above
45-50	Clay, mottled, medium and dark brown, black, orange, medium textured, plastic, well compacted.
50-55	Clay, as 45-50 above.
55-60	Clay, as 30-35 above.
60-65	Clay, dark brown, rare to scattered yellow and orange inclusions, plastic, finely-textured, well compacted.
65-70	Clay, as 60-65 above.
70-75	Clay, medium to light grey, rare carbonaceous specks, occasional ferruginous clay pebbles, medium textured, moderately compacted.
75-80	Clay, medium grey, scattered lenses and inclusions of yellowish-orange clay, finely to medium textured, moderately compacted
80-85	Clay, medium and dark grey, medium textured, moderately compacted.
85-90	Clay, dark grey, rare yellow-orange inclusions, medium textured, moderately compacted.
90-95	Clay, as 85-90 above.
95-100	Clay, as 85-90 above.
100-105	Clay, as 85-90 above, except medium to dark grey
105-110	Clay, medium and dark brown, scattered red and orange stringers and inclusions, medium textured, moderately compacted.
110-115	Clay, as 30-35 above.

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DEPTH	STRATRIGRAPHIC DESCRIPTION
115-120	Clay, medium to dark brown, scattered light grey and white stringers, scattered light brown and orange and red, medium to coarsely textured, moderately compacted (plastic).
120-125	Clay, dark brown, scattered white stringers, rare yellow and orange inclusions, plastic, medium-textured, moderately compacted.
125-130	Clay, very dark brown, finely to medium textured, plastic, moderately compacted
130-135	Clay, medium to dark brown, light grey, finely textured, plastic, moderately compacted.
135-140	Clay, medium brown, scattered orange lenses, plastic, finely textured. moderately compacted.
140-145	Clay, as 140-145 above.
145-150	Clay, as 120-125 above.
150-155	Clay, as 105-110 above.
155-160	Clay, medium brown and light grey, finely textured, moderately compacted.
160-165	Clay, medium orange-brown, dark brown, scattered bright orange inclusions, plastic, occasional black carbonaceous mud inclusions, finely textured, moderately compacted.
165-170 /sideritic	Clay, medium brown, yellow, minor orange and red carbonaceous matter inclusions, rare red clay grain inclusions, finely textured, plastic, moderately compacted.
170-175	Clay, medium brown, minor light grey, plastic, finely to medium textured.
175-180	Clay, medium to dark brown, rare light grey and yellow streaks, scattered very finely divided carbonaceous specks, finely textured, plastic, moderately compacted.
180-185	Clay, medium to dark brown, scattered orange inclusions and lenses, finely to medium textured, moderately compacted.
185-190	Clay, dark brown, plastic, finely to medium textured, moderately compacted.
190-195	Clay, as 185-190 above.
195-200	Clay, mottled medium brown, dark brown, orange and rare red, plastic, finely-textured, moderately compacted.
200-205	Clay, medium orange-brown, common to scattered carbonaceous mud and specks, finely textured, moderately compacted
205-210	Clay, medium brown, scattered orange streaks, scattered very finely divided carbonaceous specks, finely textured, plastic, moderately compacted.
210-215	Clay, medium brown, as 205-210 above.
215-220	Clay, as 205-210 above, scattered carbonaceous wood fragments

.....over/

BORE # 80

692279

DEPTH	STRATIGRAPHIC DESCRIPTION
220-225	Clay, medium to dark brown, scattered grey, scattered carbonaceous wood fragments, plastic, finely textured, moderately compacted.
225-230	Clay, light to medium brown, scattered yellow, orange and light grey stringers and inclusions, scattered very finely divided carbonaceous specks, plastic, finely textured, moderately compacted.
230-235	Silty Clay, medium brown and orange stringers, scattered orange silt stringers, scattered carbonaceous wood fragments, plastic, finely to coarsely textured, moderately compacted.
235-240	Clay, medium brown and orange, scattered carbonaceous wood fragments, scattered light brown silt stringers, medium textured, moderately compacted.
240-245	Clayey Silt, medium grey and brown, scattered carbonaceous matter and very finely divided carbonaceous specks, silt size quartz set in plastic clay matrix, coarsely textured, moderately compacted.
245-250	Clayey Silt, as 240-245 above, scattered light grey silt and grey quartz pebbles up to 1/16" diameter.
250-255	Clay, medium brown, finely divided carbonaceous specks, finely to medium textured, moderately compacted.
255-260	Clay, as 250-255 above and clayey silt as 240-245 above.
260-265	Clay, medium brown and orange, silty in places, finely to medium textured, moderately compacted.
265-270	Clay, medium to dark grey, scattered yellowish orange lenses, fine to medium textured, moderately compacted.
270-275	Clay, light and medium brown, orange, plastaic, finely textured, moderately compacted
275-280	Clay, light grey and fawn, scattered carbonaceous wood fragments and specks, finely textured, plastic, moderately compacted.
280-285	Silty Clay, medium brown, scattered black carbonaceous mud, common silt size quartz grains, coarsely textured, plastic, moderately compacted.
285-290	Clay, medium to dark brown, scattered orange tinges, finely textured, plastic, moderately compacted.
290-295	Clay, medium brown and light grey, rare finely divided mica, scattered carbonaceous wood fragments, medium to coarsely textured, moderately compacted.
295-300	Clay, very light grey to white, scattered brown and rare orange inclusions, waxy, very finely textured, moderately compacted
300-305	Clay, medium grey and brown, scattered carbonaceous wood fragments and matter, finely textured, moderately compacted.
305-310	Clay, dark brown, medium grey, streaks of orange and minor white scattered finely divided carbonaceous specks and rare carbonaceous wood fragments, finely to medium textured, moderately compacted, (plastic)

.....over/

DEPTH	STRATIGRAPHIC DESCRIPTION
310-315	Clay, dark brown, finely textured, plastic, moderately compacted.
315-320	Clay, medium brown, streaks of red and orange, finely textured, moderately compacted.
320-325	Clay, as 315-320 above, scattered carbonaceous wood fragments
325-330	Clay, medium brown, light brown, minor orange and lemon, scattered very finely divided specks, finely textured, plastic, moderately compacted.
330-335))	Clay, medium grey, finely textured, plastic, moderately compacted.
335-340)	
340-345	Clay, medium brown, rare yellowish-orange inclusions, finely textured, moderately compacted.
345-350	Clay, as 330-340 above
350-355	Clay, medium brown, scattered orange stringers, scattered orange silt, rare carbonaceous specks, finely textured, plastic, moderately compacted
355-360	Interbedded Clay as 350-355 above and light grey to white, medium brown and rare orange silt, coarsely textured, moderately compacted.
360-365	Clay, light grey, rare, reddish-brown sideritic clay pebbles inclusions, rare to scattered very finely divided carbonaceious specks, medium textured, moderately compacted.
365-370	Clay, as 360-365 above, scattered inclusions of orange and yellow clay.
370-375	Clay, as 365-370 above.
375-380	Clay, light grey, common yellow and orange stringers and inclusions, scattered clay (red) inclusions, medium-textured, moderately compacted.
380-385	Clay, light grey, mottled yellow, orange and red, rare mica, scattered sideritic dark brown and reddish-brown shale fragments and pebbles, scattered orange silt lenses, medium to coarsely textured, moderately compacted.
385-390	Clay, as 380-385 above.
390-395	Clay, light grey, white and orange clay stringers, medium to coarsely textured, moderately compounded.
395-400	Silty Clay, light to medium grey, rare bright orange clay inclusions and scattered reddish-brown and orange clay pebble inclusions. (sideritic)
400-405	Clay, light grey, scattered orange-brown concretionary clusters of brittle mineral like quartz? Finely to medium textured, moderately compacted.
405-410	Clay as 400-405 above.

..... over/

DEPTH	STRATIGRAPHIC DESCRIPTION
410-415	Silt, light grey, very rare white and orange small patches, occasionally pebbles of sub-rounded quartz up to 1/16" diameter. medium textured, moderately compacted.
415-420	Silt as 410-415 above, scattered orange finely grained sand, scattered to rare carbonaceous wood fragments.
420-425	Clay, as 400-405 and silt as 410-415 above.
425-430	Clay, and Silt as 420-425 above, scattered orange-brown and reddish-brown clay pebbles, common clear and light brown, sub-rounded, very coarsely grained to pebbles of quartz up to 1/16" diameter.
430-435	Clay, and Silt, as 425-430 above
435-440	Silt, light brown, scattered yellow, white, scattered stringers of light grey clay, scattered carbonaceous wood fragments, occasional pebbles of clear sub-angular to sub-rounded quartz, coarsely textured, moderately compacted.
440-445	Clayey Silt, light grey, scattered orange, yellow and brown patches, scattered carbonaceous wood fragments, common clay matrix, coarsely textured, moderately compacted.
445-450	Silty Sand, clear, light brown, minor yellow, finely to coarsely grained, sub-angular, poorly sorted quartz, extremely dirty, common light brown and orange silty interstitial materials, scattered white and dark brown clay fragments, scattered carbonaceous wood fragments and patches of carbonaceous matter.
450-455	Sandy Silt, light orange-brown, scattered coarse grains of quartz, scattered patches of carbonaceous matter and wood fragments, coarsely textured, moderately compacted.
455-460	Sandy Silt, as 450-455 above.
460-465	Sandy Silt, as 450-455 above, rare rounded white clay pebbles.
465-470	Silt, as 450-455 above.

All samples S/36/36/0

Q47/1 73-939

227

692282

APPENDIX II

Water Bore Core Descriptions

228

BORE No.1 Core No.1

30' - 39' Recovered 9'0"

2'0" Clay, mottled light bluish grey and reddish brown, loosely compacted, broken into poker chips in places, scattered dark chocolate brown clay stringers

1'0" Clay, reddish brown as above, only rare to scattered light blue clay.

4'6" Clay, light to medium brown, scattered to rare light blue grey lenses of clay, loosely compacted, broken into poker chips, scattered dark brown clay along fracture plane.

0'9" Clay, reddish brown (rusty) and light blue grey mottled, as above, grades into

0'6" Clay, light blue grey as above.

0'3" Clay, rusty brown as above.

Core No.2

450' - 456'6" Recovered 6'6"

6'6" Clay, light bluish grey, massive, compacted, breaking into irregular pieces due to drying and shrinkage, scattered lenses and pipes of clear and white finely grained, well sorted, sub-rounded quartz grains having a scattered white silty interstitial material, rare (less than 1%) finely divided carbonaceous specks.

BORE No.14 Core No.1

19' - 24' Recovered 3'0"

Dolerite, dark grey.

Core No.2

27' - 31' Recovered 3'0"

0'9" Clay, mottled orange, minor light grey, scattered carbonaceous blebs, coarsely textured, moderately compacted.

2'3" Dolerite, as above.

BORE No.63 Core No. 1

110? - 115' Recovered 3'0"

3'0" Basalt, black, common indurated sediment inclusions. Sample taken.

BORE No.60 Core No.1 (broken pieces at bottom of box)

215' Dolerite. Sample taken.

229

BORE 6 CORE No.1 (Boxes 1 & 2) 692284

130' - 135' Recovered 5'0"

0'9" Silty clay, light blue grey, coarsely textured, massive, moderately compacted, rare carbonaceous specimens, occasional finely divided mica, grades into

0'9" Silty clay, mottled blue grey, medium brown, white and rusty brown, loosely compacted, rare to scattered carbonaceous fragments, sudden change to

0'9" Clay, dark chocolate brown, well compacted, breaks into poker chips, sudden break to

1'6" Clay, light blue grey, silty towards the top but becoming less so towards the base, scattered (2%) inclusions of carbonaceous wood fragments up to 1 inch in length, sudden change to

0'6" Clayey silt, mottled grey blue and rusty brown, rare mica, rare to scattered fine grains of sub-angular and angular quartz.

0'6" Clay, breccia and conglomerate, light to dark brown, orange and blue grey angular fragments and sub-rounded to rounded pebbles of ironstone, loosely compacted, set in brown clay matrix, sudden change to

0'3" Carbonaceous shale, dark grey to black, poorly bedded, common carbonaceous wood fragments and blebs.

230

692285

BORE No.7 W. Area Rotary
Core No.1 (Boxes 1 & 2)

530' - 537' Recovered 5'0"

5'0" Sandstone, light grey, clear quartz, sub-rounded, well sorted, finely grained, scattered carbonaceous plant remains and blebs up to 1/2" length, minor chert, scattered clay interstitial material, very friable, good porosity and permeability.

BORE No.61 Core No.1 (Boxes 1 & 2)
From -
640' - ? Dolerite

BORE No.62 Core No.1 (Box 1)

530' - 535' Recovered 3'0"

2'0" Clay, light greyish brown, becoming medium grey towards the base, massive breaking into chips, gradual change to

1'0" Carbonaceous clay, medium grey to dark grey towards the base, common carbonaceous flakes and thin 1/8" coal stringers, leaf fragments, very poorly bedded.

BORE No.36 Core No.1 (Boxes 1 & 2)

502' - 507' Recovered 4'6"

4'6" Dolerite, black, finely textured, fractured sample taken.

BORE No.70 Core No.1 (Box 1) Samples 0' - 40'

40' - 42'

2'0" Dolerite, black, finely textured, common pebble inclusions at the top of the core.

BORE No.30 Core No.1

220' - 222'6" Recovered 2'0"

2'0" Dolerite, black, very finely textured, fractured.

BORE No.32 Core No.1

130' - 132' Recovered 2'0"

2'0" Dolerite, black, finely textured.

231

692286

BORE No.9 **Core No.1**

241' - 245'

Dolerite.

Core No.2

215' - 232

Vesicular basalt, common inclusions of indurated clays and silts and carbonaceous material formed to charcoal.

Core No.3

194' - 196'

Dolerite.

Core No.4

232' - 241'

Dolerite.

Core No.5

188' - 192'

Dolerite.

232

Q47/1 73-939

692.39

MISCELLANEOUS SAMPLE DESCRIPTIONS OF SELECTED CORE PIECES

BORE # 1

DEPTH	STRATIGRAPHIC DESCRIPTION
Core 1	Clay, orange and white to light grey stringers, scattered lenses and inclusions of dark brown clay, finely to medium textured, moderately compacted.
Core 2	Interbedded Clay, and Sand, The clay is white, finely textured, well compacted. The sand is white clear, very finely grained, sub-angular to sub-rounded, well sorted, quartz, dirty scattered to common clayey interstitial material, rare to scattered carbonaceous specks, friable, loosely compacted.

BORE # 6

Core 1 (130-135)	Clay, mottled, light, medium, dark brown, white, yellow, orange, red, dark grey, scattered inclusion of black carbonaceous mud, scattered carbonaceous-wood fragments, rare finely grained, angular, quartz grains, some of which are stained orange red, scattered red and orange limonitic coated reddish purple sideritic clay pebbles, finely to coarse textured, moderately compacted.
Core 2 (215)	Weathered Dolerite.

BORE # 7

Core 1 (530-537)	Sand, clear finely grained, sub-angular to sub-rounded, well sorted, quartz, very dirty, common white clayey interstitial material, rare carbonaceous specks and grains, about 10% of quartz grains have black staining? (or minute very finely divided carbonaceous powder adhering to grains and in pits), rare less than 1% of grains have orange or yellow staining, friable, loosely compacted.

BORE # 8

Core 1	Fresh Dolerite.

BORE # 23

Core 1 (495-498)	Dolerite, weathered, green and orange, scattered quartz, crystal growths.
	Dolerite fresh.

233

MISCELLANEOUS SAMPLE DESCRIPTIONS Contd.

692288

DEPTH	STRATIGRAPHIC DESCRIPTION
	BORE # 34
Core 1	Indurated sediments - (a) Indurated clay white, common stringers and streaks of dark brown altered carbonaceous clay, hard. (b) Quartzite, orange, brown, scattered indurated clay inclusions. (c) Indurated Sandy Clay showing scattered brown quartz pebbles, and scattered carbonaceous-wood fragments which have been converted to natural coke and charcoal, scattered vugs where carbonaceous-wood fragments once occupied, very hard.
	BORE # 36
Core 1 502-507	Dolerite, greenish black, fresh.
	BORE # 56
Core 1	Dolerite, black, fresh.
	BORE # 62
Core 1 530-535	Clay, white, light grey, dark brown stringers, scattered carbonaceous-wood fragments, finely to medium textured, moderately compacted.
	BORE # 63
Core 110-115	Weathered Basalt.

Q4471 73-939

1309

Austral United Geophysical Pty. Ltd.

MINERALS DIVISION

BRISBANE, QUEENSLAND

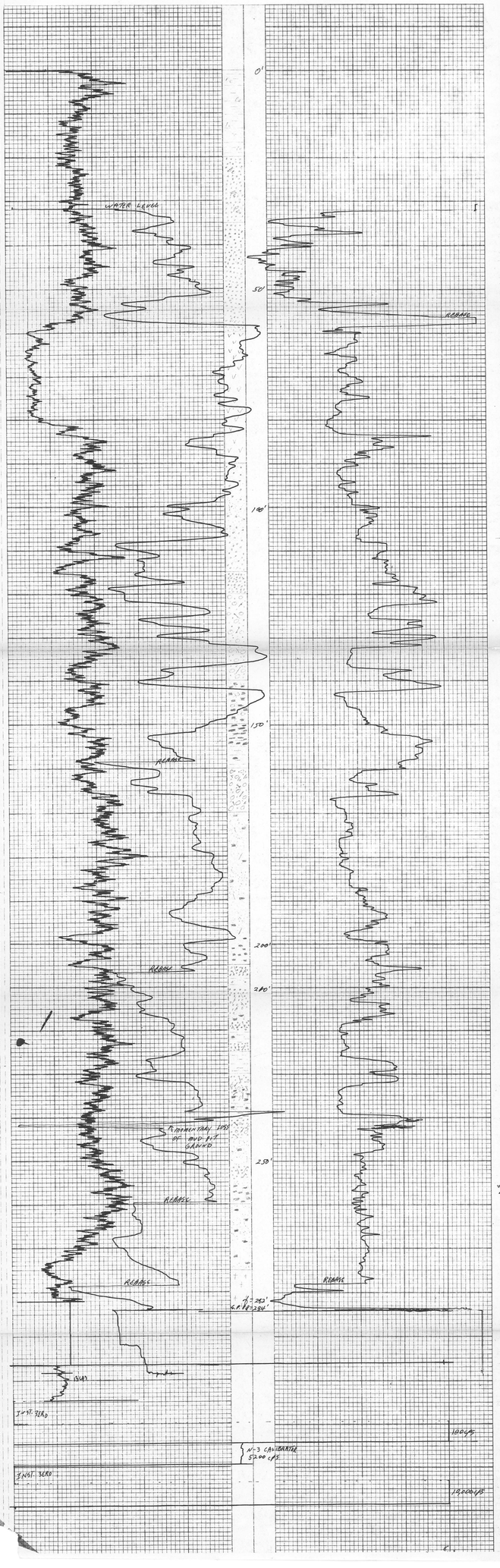
201 WICKHAM TERRACE
42 RAILWAY TERRACE

Tel. (072) 21 4355
47 2141

5 cm

692289

LOCATION		GAMMA RAY	Initial Run	2	3	4
Company	LAUNCESTON BASIN	Logged Depth (ft)	282			
Project	GETTY OIL DEVELOPMENT	Range	CPS/IN	10		
Hole No.	C-2	Time Constant (sec)	2			
County	Section	Paper Speed (ft/in)	10			
Weather	State TAS	Logging Speed (ft/min)	15			
HOLE DATA		Bkgnd Count (cps)	13			
Surface Elev.	Date 27/1/73	Detector No.	12889			
Time 10.30	T.D. 285' Driller A.U.G.	Size (dia. length)				
Casing NIL		**ELECTRIC**				
Hole Size 4½"		Logged Depth (ft)	284			
Bore Hole Medium WATER	Fluid Level 32'	Resist. Scale (ohm/in)	20			
Start 26/1/73	Completed 27/1/73	S.P. Scale (mv/in)	10			
Sample Interval 5 5'		Paper Speed (ft/in)	10			
INTERPRETATION DATA		Logging Speed (ft/min)	15			
Probe No. 302 E	Type SCINT Length 5'	Probe Size (in)	1 5/8"			
Standard (cps) 5200		Type (w/d)	S.P.			
"K" Factor .0000180						
Dead Time (usec) 10		REMARKS RELEASE S.P. AT 159'; 207'; 260'; & 279'.				
Ratemeter No. 223		RELEASE G.R. AT 57' & 278'.				
Datum G.L.	Operator DUDLEY TOWERY	LOSS OF MUD AT GROUND FROM 239' THEN 242'				



Maker's No. 66
Made in Australia by J. J. Miller Pty. Co., Melb.
GC TYPE 12115

Q47/1 73-939

Austral United Geophysical Pty. Ltd. 1308

MINERALS DIVISION

201 WICKHAM TERRACE
42 RAILWAY TERRACE

BRISBANE, QUEENSLAND

692290

Tel. (072) 21 4355
47 2141

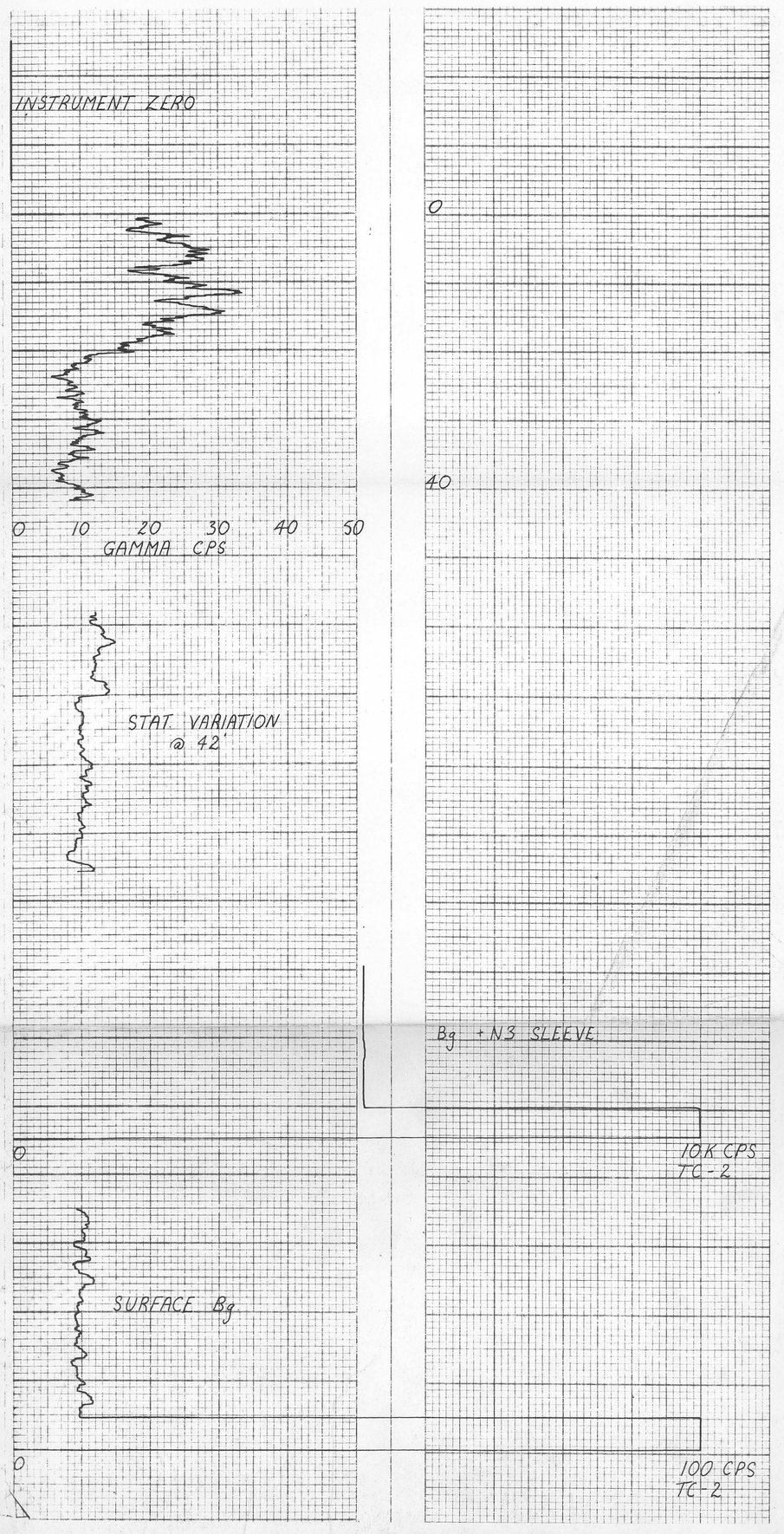
5 cm

LOCATION	LAUNCESTON BASIN
Company	GETTY OIL DEVELOPMENT
Project	
Hole No.	D/2
Section	
County	
State	TAS.
Weather	FINE, MILD
HOLE DATA	
Surface Elev.	
Date	6 - 12 - 72
Time	
T.D.	45'
Driller	W.G.SHALLY
Casing	—
Hole Size	4·5"
Bore Hole Medium	DRY
Fluid Level	—
Start	
Completed	
Sampled Interval	1'- 42'
INTERPRETATION DATA	
Probe No.	302 E
Type	SCINT.
Length	5'
Standard (cps)	5200
"K" Factor	·0000180
Dead Time (usec)	10
Ratemeter No.	223
Datum	GROUND LEVEL
Operator	W. R. WORRALL.

GAMMA RAY	Initial Run	2	3	4
Logged Depth (ft)	1'- 42'			
Range CPS - IN	10			
Time Constant (sec)	2			
Paper Speed (ft/in)	10			
Logging Speed (ft/min)	15			
Bkgnd Count (cps)	10			
Detector No.	12889			
Size (dial) (in)	1"x 7/8"			
ELECTRIC				
Logged Depth (ft)				
Resist. Scale (ohm/in)				
S.P. Scale (mv/in)				
Paper Speed (ft/in)				
Logging Speed (ft/min)				
Probe Size (in)				
Type (w/d)				

REMARKS DRY HOLE.

GAMMA RAY | S. P. | DEPTH | RESISTIVITY



GC TYPE 1215 Maker's No. 66 Made in Australia by J. J. Miller Pty. Co., Melb. GC TYPE 1215 Maker's No. 66

QH7/1 73-939

1307

692291

Austral United Geophysical Pty. Ltd.

MINERALS DIVISION

201 WICKHAM TERRACE
42 RAILWAY TERRACE
BRISBANE, QUEENSLAND
Tel. (072) 21 4355
47 2141

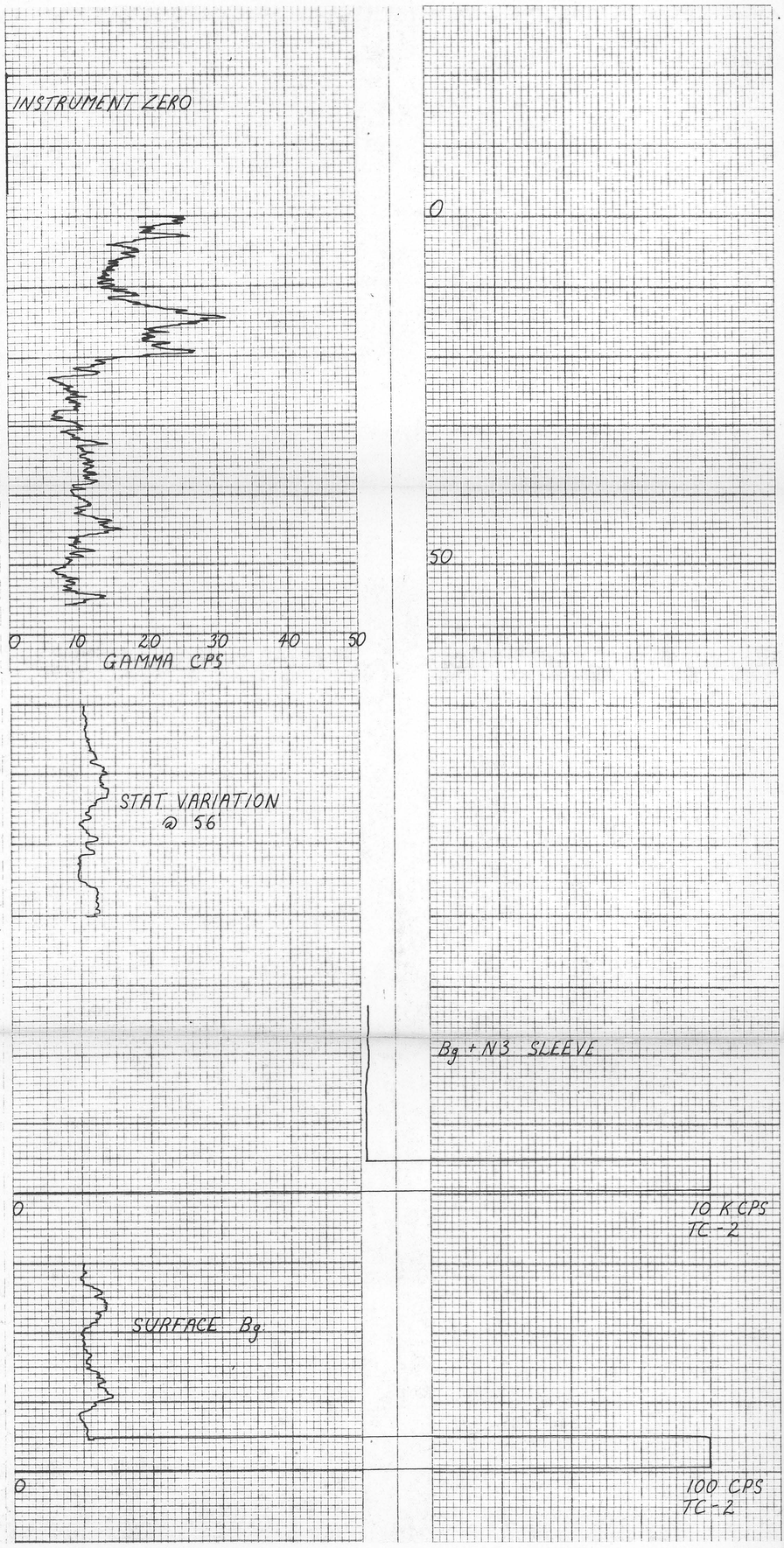
5 cm

LOCATION	LAUNCESTON BASIN
Company	GETTY OIL DEVELOPMENT
Project	
Hole No.	0/3
Section	
County	
State	TAS.
Weather	FINE, MILD.
HOLE DATA	
Surface Elev.	
Date	6-12-72
Time	
T.D.	60'
Driller	W.G. SHALLY
Casing	—
Hole Size	4.5"
Bore Hole Medium	DRY
Fluid Level	—
Start	
Completed	
Sampled Interval	0'-56'
INTERPRETATION DATA	
Probe No.	302E
Type	SCINT.
Length	5'
Standard (cps)	5200
"K" Factor	.0000180
Dead Time (usec)	10
Ratemeter No.	223
Datum	GROUND LEVEL
Operator	W. R. WORRALL.

GAMMA RAY	Initial Run	2	3	4
Logged Depth (ft)	0-56'			
Range CPS-IN	10			
Time Constant (sec)	2			
Paper Speed (ft/in)	10			
Logging Speed (ft/min)	15			
Bkgnd Count (cps)	10-15			
Detector No.	12889			
Size (dial) (in)	1"x 3/4"			
ELECTRIC				
Logged Depth (ft)				
Resist. Scale (ohm/in)				
S.P. Scale (mv/in)				
Paper Speed (ft/in)				
Logging Speed (ft/min)				
Probe Size (in)				
Type (w/d)				

REMARKS DRY HOLE.

GAMMA RAY S. P. DEPTH RESISTIVITY



Made in Australia by J. J. Miller Ptg. Co., Melb.
GC TYPE 12115
Made in Australia by J. J. Miller Ptg. Co., Melb.
GC TYPE 12115
Maker's No. 66

Austral United Geophysical Pty. Ltd.

MINERALS DIVISION

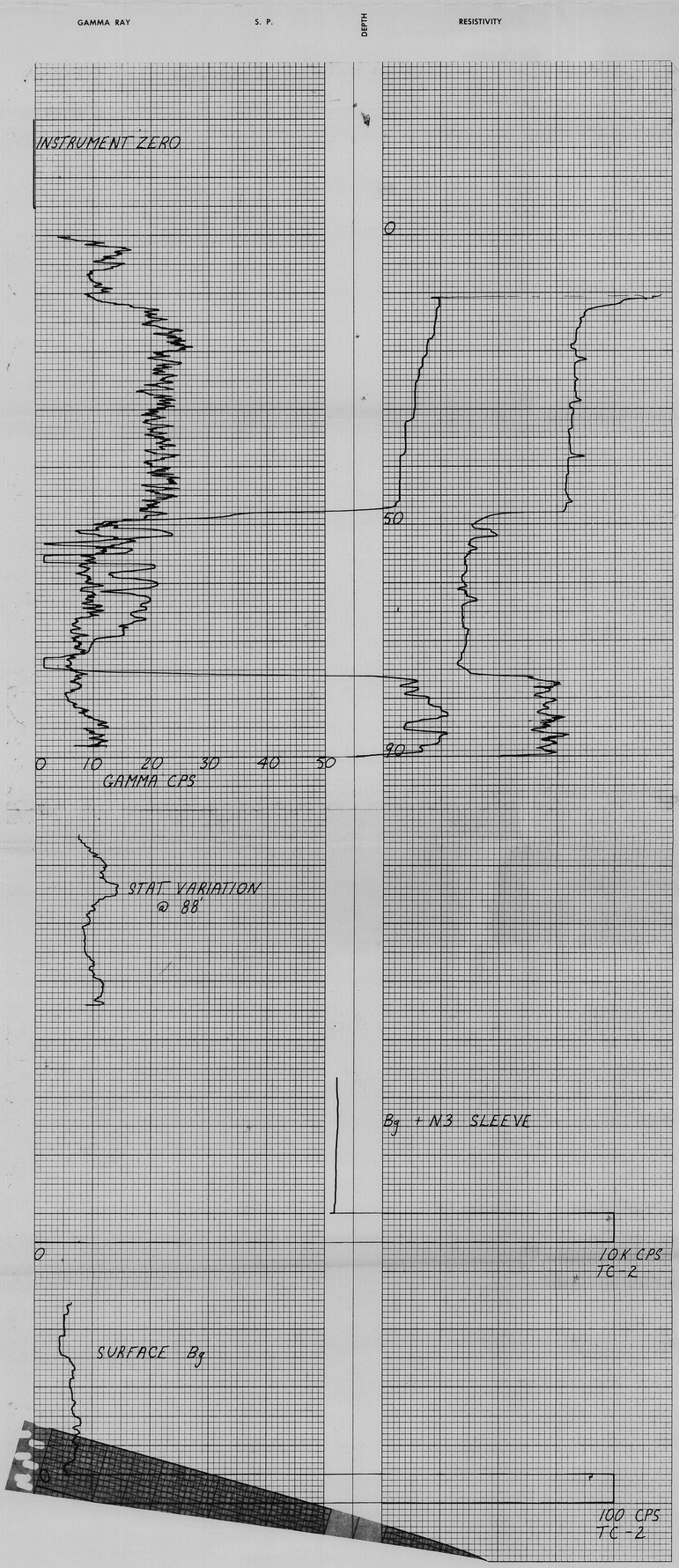
201 WICKHAM TERRACE
42 RAILWAY TERRACE

BRISBANE, QUEENSLAND

Tel. (072) 21 4355
47 2141

5 cm

LOCATION	LAUNCESTON BASIN	**GAMMA RAY**	
Company	GETTY OIL DEVELOPMENT		Initial Run
Project		Logged Depth (ft)	0 - 88'
Hole No.	M/1 Section	Range	CPS - IN 10
County	State TAS	Time Constant (sec)	2
Weather	FINE, MILD	Paper Speed (ft/in)	10
HOLE DATA		Logging Speed (ft/min)	15
Surface Elev.	Date 3 - 12 - 72	Bkgnd Count (cps)	5 - 8
Time	T.D. 90' Driller W.G.SHALLY	Detector No.	12889
Casing	–	Size (dial) (in)	1" x 3/4"
Hole Size	4.5"	**ELECTRIC**	
Bore Hole Medium	WATER Fluid Level 11'	Logged Depth (ft)	11' - 90'
Start	3 - 12 - 72 Completed 3 - 12 - 72	Resist. Scale (ohm/in)	20
Sampled Interval	0 - 90'	S.P. Scale (mv/in)	20
INTERPRETATION DATA		Paper Speed (ft/in)	10
Probe No.	302E Type SCINT. Length 5'	Logging Speed (ft/min)	15
Standard (cps)	5200	Probe Size (in)	1⅜ x 1½
K Factor	0000180	Type (w/d)	Single Point
Dead Time (usec)	10	**REMARKS**	
Ratemeter No.	223		
Datum	GROUND LEVEL Operator W.A.WORRALL		



Q4711 73-789

Austral United Geophysical Pty. Ltd.

MINERALS DIVISION

692292

1305

20 WICKHAM TERRACE
42 RAILWAY TERRACE
BRISBANE, QUEENSLAND

Tel. (07)2 31 4355
47 3141

5 cm

LOCATION	LANCELETON SHOW
Company	GETTY OIL DEVELOPMENT
Project	
Hole No.	R/A Section
County	State TAS.
Weather	FINE, COOL
HOLE DATA	
Surface Elev.	Date 12-12-72
Time	T.D. 600' Logged FROM BOTTOM
Casing	—
Hole Size	4½"
Bore Hole Medium	WATER. Fluid Level 52'
Start	Completed
Sampled Interval	0 - 476'
INTERPRETATION DATA	
Probe No.	5026 Type SCINT. Length 5'
Standard Size	6200
K - Factor	0000/10
Dead Time (usec)	10
Borehole No.	223
Datum	GROUND LEVEL Operator W. R. WORRALL

GAMMA RAY	Range	2	3	4
Logged Depth (ft)	0-476			
Range	0-2-4-10	10		
Time Constant (sec)		2		
Paper Speed (ft/in)		10		
Logging Speed (ft/min)		15		
Record Count (cps)		10-15		
Detector No.		5026		
Size (dia/l) (in)		1 x 3½		
ELECTRIC				
Logged Depth (ft)		52-476		
Resist. Scale (ohm/in)		16		
S.P. Scale (mv/in)		80		
Paper Speed (ft/in)		10		
Logging Speed (ft/min)		15		
Probe Size (in)		1¾ x 15'		
Type (w/o)		Single End		

REMARKS

GAMMA RAY S. P. DIP RESISTIVITY

INSTRUMENT ZERO

0 50 100 150 200 250 300 350 400 450 480

0 10 20 30 40 50

GAMMA CPS.

STAT. VARIATION @ 474

By + N3 SLEEVE

0 10 K CPS FE = 2

SURFACE By

0 100 CPS FE = 2

1305

Q4711 73-939

Austral United Geophysical Pty. Ltd.

MINERALS DIVISION

BRISBANE, QUEENSLAND

201 WICKHAM TERRACE
42 RAILWAY TERRACE

692293

Tel. (072) 21 4315
47 2141

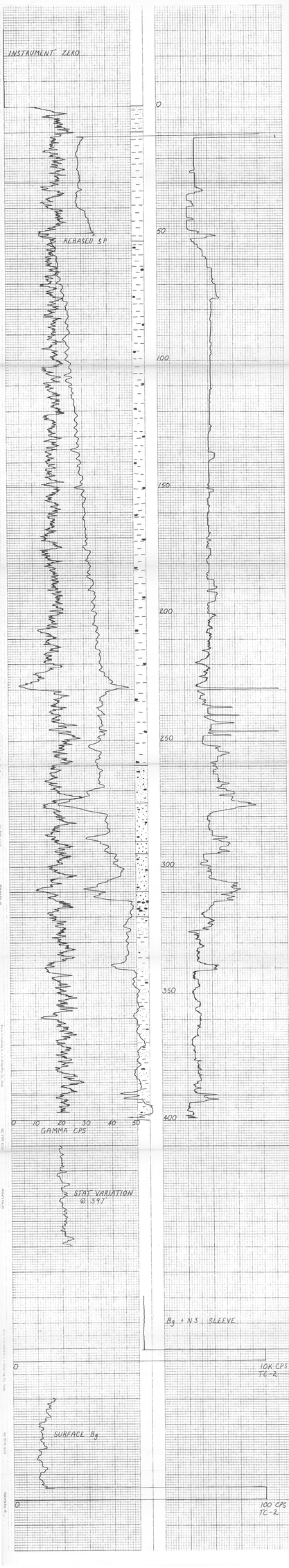
5 cm

1306

LOCATION	LAUNCESTON BASIN
Company	GETTY OIL DEVELOPMENT
Project	
Hole No.	T/6
Section	
County	
State	TAS.
Weather	FINE, WARM.
HOLE DATA	
Surface Elev.	
Date	20-12-72
Time	
T.D.	400'
Driller	J. MACBETH
Casing	"
Hole Size	4.5"
Bore Hole Medium	WATER
Fluid Level	12'
Start	
Completed	
Sampled Interval	0' - 399'
INTERPRETATION DATA	
Probe No.	3026
Type	SCINT.
Length	5'
Standard (cps)	5200
K Factor	0000180
Dead Time (usec)	10
Rotameter No.	223
Datum	GROUND LEVEL
Operator	W. R. WORRALL

GAMMA RAY	Scale Run	2	3	4
Logged Depth (ft)	0'-399'			
Range	CPS-IN	10		
Time Constant (sec)	2			
Paper Speed (ft/in)	10			
Logging Speed (ft/min)	15			
Pulsed Count (cps)	10-15			
Detector No.	12889			
Size (dia) (in)	1" x 3/4"			
ELECTRIC				
Logged Depth (ft)	12'-399'			
Resist. Scale (ohm/in)	16			
S.P. Scale (mv/in)	12.5			
Paper Speed (ft/in)	10			
Logging Speed (ft/min)	15			
Probe Size (in)	1 3/4 x 1 1/2			
Type (w/o)	Single Ent.			

REMARKS: REBASED PEN. (SP) @ 50'



1306

692294

TENNECO AUSTRALIA INC

GETTY OIL DEVEOPMENT CO LTD

LIST OF DRILL HOLES
LAUNCESTON BASIN PROJECT
TASMANIA

VOLUME 5/6

B 2
B 3 (ii)
B 4
B 5
B 6

C 1 – 4
C 5 – 13

D1
D2 – 2 (ii)
D 3 (i) – 3 (iii)
D 4

F 1 – 7

H 1 (ii)
H 2 – 4
H 4 (ii)
H 5
H 6 (ii)

J 1

M 1 – 3
M 5

O 1 - 7

P 1 – 7

Q 1
Q 2
Q 3 (i) – (ii)

R 1 - 2
R 2B
R 3 - 8
R 8A – 8B
VOLUME 6/6 R 9 - 14

S 1 - 8
S 9 (i) & (ii)
S 10 – 13
S 14 (ii)
S 15 - 17

T 2 - 5
T 5A & B
T 6
T 7 - 8

V 1 - 3
V 4 (i) (ii) & (iii)
V 4B
V 5 - 14

W 1 - 6

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. B/2
LOCATION S.E of Conara Junction
COORDS N E
TOTAL DEPTH 97 ft.
COLLAR ELEV. 717 ft. ASL

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R. Willink
HOLE DIAMETER 6in.
PROBE DIAMETER

STARTED 25/11/72
COMPLETED 25/11/72
SHEET 1 OF 1
SCALE 10 ft. = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
10ft	First ft - SANDY SOIL - light grey brown abt. Qtz (90%) minor fspar Well sorted Change to Clay, grey with light brown to red streaks (mottled appearance) Change to RED SAND at approx. 8 ft		Red streaks lim ?	n p	In sandy soil, not abt As small frags		B/2/5 B/2/10	Cuttings air flushed. 0 - 97 ft.
20ft	RED SAND - reddish brown in colour Qtz frags predom with red colour due to very fine ferrug frags (possibly oxides) little fspar. Unconsol Change to CLAY at approx 18ft.		Predom as major const of sand. As small frags, possibly Fe O	n. p.	As minor const of red sand		B/2/15 B/2/20	
30ft	CLAY - grey to light brown in colour Reddish appearance due to overlying sand? Clay continues to 50ft Occasional red streaks in clay due to ferrug staining		As red streaks (ferrug stain)	n. p	n p.		B/2/25 B/2/30	
40ft	CLAY - brown in colour						B/2/35 B/2/40	
50ft	CLAY - yellow brown in colour Below 45 ft colour becomes darker, due to underlying basalt?						B/2/45 B/2/50	
60ft	BASALT - Top 10 ft weathered Colour changes from brown to greenish brown at 60ft Below 60 ft basalt is weathered to a lesser extent, more consolidated, dark grey in colour Vesicular with vesicles filled with light green soft clayey material	v v v

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GETTY OIL DEVELOPMENT CO. LTD

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. B/3 (ii) CONTRACTOR A.U.G. STARTED 25/11/72
LOCATION 2 mls S.E. of Conara Jnc. GAMMA LOGGED COMPLETED 25/11/72
COORDS N E GEOL. LOGGED R. Willink SHEET 1 OF 1
TOTAL DEPTH 20ft. HOLE DIAMETER ~ 6in. SCALE 10 ft. = 1 inch
COLLAR ELEV. 685 ft. ASL PROBE DIAMETER

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	CLAY - brown to grey. Infrequent lim nods (< ¼" diam). grading into weathered basalt.		Infrequent lim nods	n p	n p		B/3.1/5	Cuttings air flushed 0 - 20 ft
10ft	BASALT - weathered, grey, light brown Degree of weathering decreases. Below 10ft basalt dark grey in colour, not altered to any appreciable degree.	✓ ✓ ✓ ✓					B/3.1/10	
		✓ ✓ ✓ ✓ ✓ ✓					B/3.1/15	
20ft	End of hole	✓ ✓					B/3.1/20	Hole abandoned 20ft - inability to penetrate

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING ' LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. B/4
LOCATION 2ml. E.S.E. Conara Jnc.
COORDS N E
TOTAL DEPTH 110 ft.
COLLAR ELEV. 704 ft. ASL

CONTRACTOR A.U.G.
GAMMA LOGGED
GEOL. LOGGED T.W. MIDDLETON
HOLE DIAMETER ~ 6in.
PROBE DIAMETER

STARTED 24/11/72
COMPLETED 24/11/72
SHEET 1 OF 1
SCALE 10 ft. = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
	IRONSTONE GRAVEL - predom concret. ionary lim nods to 1" sandy silty matrix		~ 75% lim nods	n.p.	n.p		B/4/5	~ 1-2 ft surface material stripped for road gravel
10ft	GREY FERRUG CLAY - predom compacted clayey material ± abt patches + streaks of lim stained material		abt lim staining	n.p.	n.p.		B/4/10 B/4/15	Air flushed 0-15 ft Water flushed 15'-110 ft.
20ft	grey CLAY - mottled white to med grey appearance less ferrug than last - streaks + patches of lim + hem stained / nch material		abt lim-hem staining	n.p.	n.p		B/4/20 B/4/25	
30ft							B/4/30	
40ft	grey CLAY as last with thin beds of gritty ferrug. gravel - sub rounded pebbles to ¼" - lim - some small particles kaolinitic material.	abt small pe	abt. small pebbles lim some hem?	n.p.	n.p		B/4/35 B/4/40 B/4/45	
50ft	grey CLAY - with decreasing yellow brown lim stain		lim stain ↓ with depth	n.p	n p		B/4/50 B/4/55	
60ft							B/4/60	
70ft	CLAY - grey with minor lime green ↑ relict texture after fine gr crystalline rock						B/4/65 B/4/70	
80ft	BASALT gradation from clayey through grey-green weathered to relatively						B/4/75 B/4/80	
	fresh dark grey fine grained, vesicular, - vesicles lined ± yellow-green						B/4/85 B/4/90	
							B/4/95 B/4/100	
							B/4/105 B/4/110	

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. B/5
LOCATION 2 miles east of Conara
COORDS N E
TOTAL DEPTH 105ft
COLLAR ELEV. 703ft A.S.L.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED T.W. Middleton
HOLE DIAMETER
PROBE DIAMETER

STARTED 23/11/1972
COMPLETED 24/11/1972
SHEET 1 OF 1
SCALE 10ft = 1in

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	About 6" fine grey qtz SAND with occasional pink felspar & lim. nodules to 3/4" into CLAY - predom. grey with mottled buff, orange, reddish stain		5-10% lim. nodules; lim. stain odd nodule	surface organic; n.p.	occ. pink fine gr in top 6"; n.p.		B/5/10	Air flushed 0-10'; Water flushed 10-105'
10'	CLAY with interbedded IRONSTONE GRAVEL lenses. Predom grey to buff yellow brown mod. compacted with kaolin pseudomorphs after felspar? Limonitic nodules to 1/2" decreasing with depth		20-30% lim. nods. ↓ with depth	n.p.	minor kaolin after felspar?		B/5/15; B/5/20	
20'	CLAY - predom grey to buff to yellow brown with small ferrug. nodules to 1/4" decreasing with depth		5-10% lim. & hem. nodules ↓ with depth	n.p.	n.p.		B/6/25; B/5/30	
30'			fair lim. stain through-out				B/6/35; B/5/40	
40'	more homogeneous, grey, compacted CLAY into grey-green CLAY & relict texture after fine gr. igneous rock						B/5/45	
	BASALT gradation from clay through weathered grey green altered sections	V V					B/5/50	
50'	with chloropal into relatively fresh grey, fine gr. vesicular (varying)	V V					B/5/55	
	with occasional amygdoles of weathered yellow green amorphous mineral	V V					B/5/60	
60'		V V					B/5/65	
		V V					B/5/70	
70'		V V					B/5/75	
		V V					B/5/80	
80'		V V					B/5/85	
		V V					B/5/90	
90'		V V					B/5/95	
		V V					B/5/100	Loss of water return 99ft - unable to regain after mudding - necessary to case - sufficient amount not available
100'	Hit cavity 99-103ft possibly into yellow grey CLAY:						B/5/105	
	End of hole 105ft							
110'								

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GETTY OIL DEVELOPMENT CO LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. B/6
LOCATION 2MLS E. of Conara Jn.
COORDS N E
TOTAL DEPTH 360'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED P. GRIFFITHS
HOLE DIAMETER ~6"
PROBE DIAMETER

STARTED 25/11/72
COMPLETED 26/11/72
SHEET 1 OF 2
SCALE 10 ft = 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
	CLAY: - brown ± reddish brown streaks + lim nods up to ¼"	– – – –	reddish brown streaks + lim nod up to ¼"	np	n.p		B/6/5	Air flushed to 50'
	WEATHERED BASALT: - yellow brown - very friable. clay after basalt	v v v v v v	np	np	np		B/6/10	
10'	- grey	v v v v v v					B/6/15	
	green grey	v v v v v v					B/6/20	
20'	brown grey -	v v v v v v					B/6/25	
	green grey	v v v v v v					B/6/30	
30'		v v v v v v					B/6/35	
	grey	v v v v v v					B/6/40	
40'		v v v v v v					B/6/45	
	more competent basalt, vesicles apparent black silty material - carbonaceous (due to water table?)	v v v v v v					B/6/50	
50'	SANDY SILT - poorly sorted 1-2mm qtz xtals ± in a light brown to orange brown silt matrix		stained matrix orange brown.	np	np		B/6/55	
							B/6/60	
60'	alternate bands of light brown to orange brown.		lim nods up to 1" - orange brown stain	~2-5% black specks	"		B/6/65	
							B/6/70	
70'							B/6/75	
							B/6/80	
80'	CLAY: predom grey - rare carbonised wood - ↑ ± depth to ~5% - small frags up to ¼" long	– – – –	np.	rare wood frag	np		B/6/85	
				~5% wood frag			B/6/90	
90'	SANDY SILT. fnd to subrnd predom qtz xtals (≤ ½ mm) in a grey green silt matrix. - 20-15% black specks + wood frag - ↑ in size ± depth		np	15-20% - blacks specks + wood frag.	"		B/6/95	
93'	CLAY AFTER BASALT.	v v v v	np	np	np			
95'	SANDY SILT AS ABOVE % of wood frag - ↑ in size - largest is 28mm long, 12mm wide			↑ in wood frag ~40% - rare black specks			B/6/100	
100'	SILTY SAND. poorly sorted		np	10% Wood frag - rare specks	xtals ↑ up to 1mm - 5%		B/6/105	
100-105'	- ang to subang xtals of qtz, qtz'ite (green) + f'dpar) (or milky qtz) - up to 1mm in a silt to clay matrix - 10% carbonized wood.							
105-120'	↑ in grain size ± depth - up to 2mm qtz + qtz'ite (35%) - (colourless to green xtals) + f'dpar or milky qtz 6%) ± in. silt matrix (60%)						B/6/110	
110'			rare lim nod	rare wood frag - rare specks	"		B/6/115	
							B/6/120	
120'	general grain size ↑ - some qtz frag up to 5mm - ↑ in % wood frag 10%			5% wood frag - rare specks.			B/6/125	
125	CARBONACEOUS SILTY CLAY Predom grey brown - qtz + f'dpar(!) frag's up to 2mm ± in predom grey brown silty clay. - carbonaceous wood frag (10%)		np.	10% wood frag	~2% large frag ~2mm		B/6/130	
130'	130'-155' - thin bands of coarser grey green sandy silt. ± in grey brown (to brown) silty clay			15% wood frag	np		B/6/135	
			"				B/6/140	
140'	clay - dark brown to black ± black c. specks. + abt wood frag.			40-50% wood frag -	"		B/6/145	
							B/6/150	
150'	lighter brown silty clay		small frag' of orange brown clay.	↓ to 5-10% wood frag	"		B/6/155	
155'	PEBBLY GRAVEL very poorly sorted predom qtz pebbles - 2mm to 20mm - ang to sub ang in a silt to clay matrix - rare wood frag		np	rare wood frag - contamination?	rare some pebbles		B/6/160	
160'	CARBONACEOUS SILTY CLAY: Predom dark brown silty clay - black specks - rare wood frag - qtz pebbles throughout - contamination - thin bands of grey green sandy silt ± in silty clay.		np	black speck ~20% + rare wood frags	np		B/6/165	
170'							B/6/170	
			"	"			B/6/175	
180'							B/6/180	
			"	"	"		B/6/185	
190'							B/6/190	
			"	"	"		B/6/195	
200'							B/6/200	

B/6.

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200	large wood frag - up to 15mm long - 8mm wide		np	Wood frag - 5% - 20% black specks			B/6/205
210							B/6/210
1-2mm	COARSE ARKOSIC SILTY SAND - poorly sorted 210-220. ang to sub ang xtals of qtz (40%) + fd/par (20%) (White + pink) in a silt matrix (40%)		np	rare wood frag	20% 1-2mm frag's		B/6/215
220							B/6/220
225	COARSE ARKOSIC SAND qtz + f'd par xtals up to 10mm - rare qtz pebbles (15mm)		np	np.	20-30% - frag up to 5mm		B/6/225
	PEBBLY GRAVEL Predom pink fdpar + qtz pebbles up to 15mm in silt matrix.				- up to 10-15mm		B/6/230
230							
240	CARBONACEOUS SANDY SILT: dark brown to grey black. - fine to very fine of qtz + whin kaolin after f'dpar + abr wood frags in a silt to clay matrix		np	large wood frags - 40% - fine grains (black throughout matrix	10-15% kaolin after f'par - fine grains (b)		B/6/235
							B/6/240
			"		"		B/6/245
250							B/6/250
			"	no wood - black peaty bands - 60%	"		B/6/255
260	thin bands of grey green sandy silt 2in thicker carbonaceous black bands						B/6/260
				40% peaty bands	"		B/6/265
270				"			B/6/270
					"		B/6/275
280							B/6/280
	lighter brown + thin C content.			15% peaty bands			B/6/285
290							B/6/290
	SILTY CLAY - light grey + black c. specks - black + orange streaks		rare orange streaks	5% black specks	"		B/6/295
300							B/6/300
							B/6/305
			"	rare black specks	"		B/6/310
310							B/6/315
							B/6/320
320	DOLERITE clay after dolerite - light to dark green - dolerite texture.	+ +					B/6/325
		+ +					B/6/330
330		+ +					
		+ +					B/6/335
		+ +					B/6/340
340		+ +					
		+ +					B/6/345
		+ +					B/6/350
350'		+ +					
		+ +					B/6/355
		+ +					B/6/360
360'	END						

5 cm

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/1
LOCATION ½ mile S.W. of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 212'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED D TOWERY
GEOL LOGGED P. GRIFFITHS
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 27/1/73
COMPLETED 29/1/73
SHEET 1 OF 2
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
	SANDY SILTY CLAY: -poorly sorted 20-30% fine to very fine qtz, subang to subrnd -predom orange brown stain in a silty clay matrix - orange brown - abt. 1cm nods		100% orange brown stain	n.p.	n.p.		C/1/5	
	CLAY AFTER BASALT: 5-10' Bands of grey blue to purple clay ± Kaol as stringers to spots in the clay - no obvious igneous texture + small amount of mod decomposed orange brown basalt.	V V V	~50% orange brown stained	rare carb wood - as roots from surface plants.	5-20% Kaol.		C/1/10	
10	10-15' Predom a light blue grey Fels? clay after basalt ± ~20% of sample as a creamy yellow Fels clay (almost totally Kaol. light blue clay contains abt flecks of kaol. → an igneous texture	V V V	20% as orange brown bands in clay	n.p.	20-30% kaolin blue grey clay up to 100% kaol in creamy yellow clay.		C/1/15	
18'	15-18 predom the creamy yellow clay.	V	"				C/1/20	
20'	SANDY SILTY CLAY: -fine to very fine qtz (~5%) ± in an orange brown silty clay matrix - qtz subang to subrnd -grades into a		matrix ~100% orange brown	"	n.p.		C/1/25	
30'	SANDY SILT: fine to very fine qtz, subang to subrnd (10-40%) -predom colourless + 1-3%, ≤ very fine grey lithic grains in a predom creamy white silty matrix - ± rare orang & brown bands. 35 to 40' sandy silt has a faint orange stain thru out.		~5% as orange brown stringers & bands	"	rare white fldpar. xtal.		C/1/30	
~38'			faint orange stain				C/1/35	
40'	38'-40' GRITTY FELS. SAND.* PEBBLY FELS. SAND. %'s are as 40'-45' above ± qtz & qtz' like frags up to 10mm -ave size 3-5 mm.**		~60% grains orange stained	"	~10% yellow white xtals	38'	C/1/40	GRITTY FELS. SAND. * 60-90% qtz up to 3mm ~½ are orange stained ± ~10% 10% yellowy white fldpar xtals + ~5% lithic grey frags xtals are ang to subrnd
50'	45-50' GRITTY FELS SAND. as for 38-40'		rare orange stain				C/1/45	
~53'	50'-53' - medium to predom fine to very fine Fels. SAND ± 1-2% orange lithic frags		1-5% orange stain + 1-2% orange lithic frag	"	"		C/1/50	** N.B. most of fine xtal lost thru' mesh.
~58'	53-55' SANDY SILT *** 55-58': ~80% SANDY SILT ± ~20% SILTY SAND Bands		1-5% xtals orange stained	"	Kaolinised matrix?		C/1/55	*** SANDY SILT: fine to very fine qtz rnd to subrnd + 1-3% grey lithic frags in a creamy white (kaolinised?) silty matrix - 55-58': where occur bands where % qtz ? → a SILTY SAND.
60'	GRITTY FELS SAND: as above grades into a		rare stain		~10% white to yellow white fldpar.		C/1/60	
	60-64 PEBBLY FELS SAND as above		"				C/1/65	
70'	CARB SILTY CLAY ± abt PEAT Bands. carb silty clay: -dark brown -plastic ± 1-3% very fine qtz xtals, rnd, + 1-2% mica flakes + abt peaty flakes ± in silty clay.		n.p.	60-70% carb. as peaty flakes & peat bands.	n.p.		C/1/70	
~72'							C/1/75	
80'	~90% CARB SAND ± ~10% as carb SILTY CLAY Bands SAND: medium to predom. fine to very fine ang to subrnd qtz (predom colourless) + 5-10% white xtals (± ~5% White qtz + 5% white fldpar		"	5-10% wood frag	≤5% fldpar		C/1/80	
90'	+ ~10% decomposed (clayey) grey lithic rock frags + wood frags - soft, peaty, dark brown. From ~75-80' xtals ↑ in size up to ~3mm. & ~5% of samples are grey to grey brown mod to well compacted silty clay At ~87' sand grades sh to a			≤5% wood frag	"		C/1/85	
100	Pebbly SAND: ↑ in size up to ~10mm ± ave pebble size of ~5mm pebbles are predom qtz rnd to subrnd & colourless. ± 1-5% white (qtz) pebbles & 1-3% grey lithic frags & predom ang to subang ~5-7mm ****						C/1/90	
~104'	GRAVEL: predom qtz pebbles as above (predom rnd to subrnd) ± ~5% white qtz' like frags ang to subang ± ~5% grey lithic frags ang to subrnd		np.	np	np.		C/1/95	
110	SANDY SILT: fine to very fine qtz, sub ang to rnd + 1-5% White kaolin specks + 1-2% mica flakes in a greeny grey silty matrix (mainly green).		faint orange stain	1-5% wood frags	1-5% kaol. specks		C/1/100	**** 95-100' rare lenses of light grey silty clay - poorly compacted.
~118'							C/1/105	
120	CARB. SANDY SILT fine to predom very fine qtz (rnd to subrnd) ~5%. + 1-2% mica flakes. + 1-5% peaty flakes in a dark brown silty matrix		np.	1-5% peaty flakes + c. as interstitial comp. of matrix	1-5% kaol flecks.		C/1/110	
130							C/1/115	
							C/1/120	
140	FELS SAND ± SANDY SILT + carb SANDY SILT Bands (10-20%) sand: very coarse to very fine - ang to subrnd xtals 80-90% qtz (colourless) + 5-10% white fldpar + 1-3% pink fldpar + 1-5% grey lithic frags + 1-3% green lithic frags		np.	rare wood frags	5-10% white + 1-3% pink.		C/1/125	
	140-150: Gritty Sand: xtals size ≤ 3-4mm						C/1/130	
150							C/1/135	
	150-155' ≤ very coarse xtals.						C/1/140	
							C/1/145	
160	Bands of SAND (as for 135-140') ~45% Carb SANDY SILT (as for 118-135') ~50% ± grey SILTY CLAY lenses (1-5%)			~5-10% wood frags	in sand		C/1/150	
				minor wood content			C/1/155	
							C/1/160	
170	DETRITUS BED: 20-30% gravel - ang to subrnd qtz & qtz like (60-70%) + grey lithic frags (10-30%) - pebbles up to 10-15mm , + decomposed clay after dolerite pebbles' + Sandy silt: - contamination? + 1-5% grey silcrete		np	n.p.	n.p.		C/1/165	
							C/1/170	
180							C/1/175	
							C/1/180	
							C/1/185	
190	Interbedded Bands. of FELS SAND ~80% & Carb. SANDY SILT: (20%) SAND: ≤ very coarse - as for 135-140. carb. sandy silt: poorly to well compacted bands ± abt peaty stringers as for 118-135'.		"	rare wood.	1-3% Pink 5-10% white in sand + 1-5% kaol in sandy silt		C/1/190	
							C/1/195	
200							C/1/200	
200	200-205' ~70% carb sandy silt ± minor green sandy silt + 30% Gritty Fels Sand * - qtz colourless ang to subrnd up to 3-4mm + 1-2% pink & 5-10% white fldpar (a few pink xtals up to 3-4mm) - mainly 1-2mm + 1-5% grey lithic frags						C/1/205	* NB Pyrite (oxidised) ± chlorite in qtz xtals. - abrassy yellow.
210	205-210 80-90% Gritty Fels Sand ± 10% Carb sandy silt.						C/1/210	
	210-212: clay after dolerite) 211-212 - fresh dolerite? - dark grey to black.						C/1/212	

212' END OF HOLE

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/2
LOCATION ½ MILE N.E. of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 285 ft
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED D. TOWERY
GEOL. LOGGED R. J. Willink.
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 27/1/1973
SHEET 1 OF 2
SCALE 10 feet = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10	FERRUGINOUS SILTY CLAY WITH LIMONITIC BANDS Yellow brown to brown Overall fine gr & ferruginous staining of matrix components 0-6 ft loosely compacted surface soil Common 5-10% limonite nodules (rnded) 1/8"-1/4" predom 5-10 ft relatively plastic — Common 5-10% red brown hard angular limonitic fragments - probable banding?	(Fe)	As ferrug stain of matrix components throughout; As limonite nodules 1/8-1/4" 0-5 ft	np	Mlt. to clay mins.	-	C/2/0-5; C/2/10	Cuttings water flushed
20	10-20 ft Mottled yellow brown and red brown High silt component ↑ & depth Common ang. limonitic frags 20% - probable banding	(Fe)	As limonite bands 5-20'				C/2/15; C/2/20	
30	SILTY SAND WITH LIMONITIC BANDS Overall homogeneous texture Fine gr. Predom Sand & minor silt component. Yellow brown due to ferruginous staining of silt component. Sand & apparent major Qtz + minor yellow specks - f/spar? 20-25' Common 5% angular limonitic frags 25'-30' 2-3% limonite nodules - 1/2", sub rounded	(Fe)	As ferrug. matrix stain As limonite bands 20-25'; As limonite nodules 25-30' 2-3%	n.p.	Yellow speck possible minor f/spar const. in Sand?	-	C/2/25; C/2/30; C/2/35	
40	FINE SAND Cutting 70% fine sand, 30% silty sand Fine sand consts. as sand in silty sand 20-35' Sand possibly silty sand (as above) with silt component washed through.		As ferrug staining only.	n.p	As above 20'-35'		C/2/40	
50	SILTY SAND Grey to yellow brown in colour Ferrug staining in matrix. Overall homog texture Constituents as from C/ 20-35'.	(Fe)	As ferrug yellow-brown staining of matrix	n.p	As from 20'-35'		C/2/45; C/2/50	
60		(Fe)	consts.				C/2/55; C/2/60	
70	BASALT Relatively fresh, hard, dark grey, angular fragments Slightly vesicular with marked igneous fine gr texture. Common large pebbles of ironstone + qtz (rnded) 1% through basalt cuttings, possible thin band on top of basalt	V V	-	-	-	-	C/2/65; C/2/70	
80		V					C/2/75; C/2/80	
90	DECOMPOSED BASALT Greenish brown to yellow in colour Relatively soft cf 60'-80'. but & apparent igneous fine gr texture.	V V V	-		-	-	C/2/85; C/2/90	
100	FERRUGINOUS SANDY SILT Yellow brown to brown in colour due to ferruginous staining of silty matrix Cuttings predom silt & minor sand component Sand & apparent Qtz + yellow specks ⇒ kaolin after f/spar	(Fe)	As ferrug. yellow to yellow brown	n.p.	Yellow specks kaolin after f/spar 5-10%	-	C/2/95; C/2/100	
110	Sand component ↑ & depth.	(Fe)	Stain throughout.				C/2/105; C/2/110	
	Gradational boundary						C/2/115	
120	SILTY SAND Brown ferrug staining throughout Predom fine sand (Qtz + minor f/spar 5%) & minor silty matrix Homogeneous texture.	(Fe)	Ferrug staining throughout	n.p	As probable minor const. ? < 5%	-	C/2/120	
130	GRAVEL Coarse Poorly sorted >1/4", 20%; 1/4"-1/8" 60%; <1/8", 20%. Const frags include predom Qtz, rnd to sub angular, brown clear to grey, 80-90%. Minor f/spar pink to white, sub ang 5-10% Lithic frags (black) 5% + rare sub rnded pebbles of petrified wood, chalcedony and/or qtzite?		n.p	np	As minor const. of gravel 5-10% pink to white frags		C/2/125; C/2/130	
140	Common frags (5-10%) of grey silt throughout Probable thin bands through gravel			135'-140' 2-3% peaty chips			C/2/135; C/2/140	
150	INTERBEDDED SILT, GRAVEL AND PEATY CHIPS Gravel as from 120'-140' Peaty chips - black 1/2" Silt grey to grey brown Predom silt & apparent clay matrix Apparent yellow specks (kaolin?) Overall homog fine gr. Gravel 20-30% ↓ depth, Silt 70-80% ↑ depth		n.p	140-145' 30-40% peaty chips 145-150' 2-3% peaty chips	As gravel const (120-140') Kaolin after f/spar in silt?	-	C/2/145; C/2/150	Difficult to delineate boundary due to probable contamination of cutting from below 140' with gravel from 120'-140'.
160	CARBONACEOUS SILT TO SILTY CLAY Grey to brown, as from 140-150' Predom silt & minor clayey matrix Carbon as fine gr interstitial and peaty chips Common 5% coarse gravel frags throughout ⇒ contam only?		n.p	150-155' 60-70% peaty chips 155'-160' 1% peaty chips	Mlt. to clay mins?	-	C/2/155; C/2/160	
170	GRAVEL As from 120-140' Coarse Poorly sorted Predom Qtz & minor f/spar and lithic fragments Common carbonaceous peaty chips Extremely abundant 165-140'		n.p	160'-165' 2-3% peaty chips 165-170' 70% peaty chips	As minor gravel const.	-	C/2/165; C/2/170	
180	CARBONACEOUS SILT Grey to brown in colour- Homog. fine gr. Silt & apparent yellow specks ⇒ kaolin after f/spar Silt & minor sand + clay components. Common greenish grey silt frags.		n.p	As interstitial in brown frags of silt ↑ & depth.	Mlt. to clay mins (kaolin after f/spar ⇒ yellow specks?	-	C/2/175; C/2/180	
190	Carbon as interstitial gives rise to brown colour Extensive contamination of cuttings with coarse gravel. ↓ & depth 10-6%		185-190 As yellow brown stain in rare sandy silt frags.				C/2/185; C/2/190	
	185-190' Rare Ferrug. sandy silt frags? through cuttings. Contamination or possible thin band!						C/2/195; C/1/200	
200	200-205 Common peaty chips through cuttings		~~n.p~~	200'-205' 5% peaty chips			C/2/205	C/2 CONTINUED
210	INTERBEDDED SILT TO SILTY CLAY AND PEBBLY COARSE SAND Silty clay - as from 170'-205'; Carbonaceous. Pebbly coarse sand - poorly sorted. Predom very coarse sand & minor pebble component >1/8" 5-10%. Constituents predom Qtz - clear to brown - sub ang. Minor f/spar - pink to white + rare lithic frags green to black % abundance of components variable & depth		n.p.	As interstitial in silty clay	As minor const of sand.	-	C/2/210; C/2/215; C/2/220	
220	205'-210' 50% coarse sand; 50% silty clay to silt 210'-220' 80-90% coarse sand, 10-20% carb silt 220'-225' ↑ in silty clay component 40-50% 50-60% sand						C/2/225	
?	SILTY CLAY Bluish grey & low silt abundance. Minor sand const <5%. Homog, fine gr.		n.p	n.p.	Mlt. to clay mins		C/2/230	
230?	INTERBEDDED SILT TO SILTY CLAY AND PEBBLY COARSE SAND Constituents as from 205'-225'. 230'-245' 80% coarse sand & abundant. 10-20% pebbles >1/4" 20% silty clay ↓ & depth		n.p.	235'-240' 10% peat	Mlt. to clay mins		C/2/235; C/2/240	
240							C/2/245	
250	245'-260' ↓ in sand component ↑ in silt component. Carb silt & relatively high fine sand const.			245'-260'			C/2/250	
260	⇒ yellow specks - kaolin after f/spar? Sand 30-10% Carbsilt 70-90% Gradational boundary.			255'-260' 20% peat frags	Yellow specks in carb silt Kaolin after f/spar?		C/2/255; C/2/260	Difficult to delineate boundary due to probable continual contamination of cuttings & coarse sand.
270	CARBONACEOUS SILT. Cuttings predom silt & minor clayey matrix Homog. texture, fine gr. Silt & apparent yellow specks - kaolin? and common black specks of carbonaceous material.		m.p	As inter-stitial giving brown colour As black carb. specks	Yellow speck kaolin after f/spar?	-	C/2/265; C/2/270	
	Common fine to coarse sand frags resulting from probable contamination only						C/2/275	
280	CLAY AFTER DOLERITE 275-280' - grey to bluish grey, fine gr homog clay. & no apparent igneous texture.	+ +					C/2/280	
	280'-285' profound coarse gr igneous texture in green cuttings. Hardness ↑ & depth.	+ +					C/2/285	
290	END OF HOLE 285 FT - DOLERITE BASEMENT							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/3
LOCATION 3/8 mile NE of CONARA JUNCTION
COORDS N - E
TOTAL DEPTH 62 feet
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED not logged
GEOL. LOGGED R.J Willink
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10 feet = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10	CLAY WITH FERRUGINOUS STAINING Clay predom red brown due to ferruginous staining of fine gr, homogeneous matrix Moderately plastic Probable clay after basalt? 0-10ft common limonite nodules 5-10% black rnded.	(Fe)	As ferrug stain throughout As limonite nodules 5-10%	rp	All to clay mins?		C/3/0-5 C/3/10	Cuttings washed flushed
	10-15ft common hard angular limonitic frags probable banding through clay? Boundary gradational	(Fe)	0-10' As limonite banding 10'-15'+?				C/3/15	
20	CLAY AFTER BASALT - Mottled grey and brown Fine gr with apparent igneous texture. Brown colour due to ferrug staining	(Fe)	As ferrug staining	rp	All to clay mins!		C/3/20	
30	Hardness increases ↑ depth as degree of decomposition decreases ↑ depth	(Fe)	↓ ↑ depth				C/3/25 C/3/30	
40	BASALT Predom green to greenish grey cuttings. slightly decomposed Relatively hard, angular cuttings. Slightly vesicular		-	-	-		C/3/25 C/3/40	
50							C/3/45 C/3/50	
60							C/3/55 C/3/60	
	60-62ft Basalt extremely hard. Dark brown to black.						C/3/62	
70	END OF HOLE 62 FEET							Drilling terminated due to excessively slow drilling rate through hard BASALT
80								
90								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/4
LOCATION 1½ miles N.E. of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 53'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED D TOWERY
GEOL. LOGGED T.W. MIDDLETON
HOLE DIAMETER 4½
PROBE DIAMETER

STARTED 26/1/73
COMPLETED 26/1/73
SHEET 1 OF 1
SCALE 10'=1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	Thin ferrug TOPSOIL - 6" to 1' - into CLAY - compact orange brown ± boundary uncertain						C/4/5	
10	DECOMPOSED BASALT - bleached in upper section but relict texture apparent - highly vesicular in parts - vesicles occasionaly filled ± limonite, chloropal	V V V					C/4/10	
20		V V V					C/4/15 C/4/20	
30		V V V V					C/4/25 C/4/30	
40		V V V V					C/4/35 C/4/40	
50	very hard fresh basalt 48-53'	V V V V V					C/4/45 C/4/50	
		V					C/4/53	
60	END OF HOE 53' - unable to penetrate further.							

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/5
LOCATION 1¾ miles NE of LONARA JUNCTION
COORDS N - E
TOTAL DEPTH 88'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED not logged
GEOL. LOGGED T.W MIDDLETON
HOLE DIAMETER 6"
PROBE DIAMETER

STARTED 26/1/73
COMPLETED 26/1/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10	CLAYS: mottled ferruginised -grey subord. - predominantly orange brown, fawn, brick red Inclusions of sandy limonitic material - also hard small limonitic nodules	Fe	most of clay Fe'd stained -see text	np	np.		C/5/5 C/5/10	Air flushed rotary drilling 0-80'
20		Fe	tabt hard yellow brown limonitic nods and bands				C/5/15 C/5/20	
30	transition to CLAY: -light creamy grey becoming, indurated? relict texture often fine grained igneous rock - basalt.?		diminishing FeO. stain	np	Kaolin specks after fpar.		C/5/25 C/5/30	
40	narrow band of CLAY medium grey ± relict igneous texture - fine to medium ± red brown into compact CLAY -purple-orange, grey -mottled, finer texture		↑ FeO stain 20-30% hard orange red brown limonite.				C/5/35 C/5/40 C/5/45	
50	CLAY: - light grey predom. ± rosy like tinge some orange brown FeO mottled patches. Finer texture but some residual whitish specks of kaolin?		20% stain				C/5/50	
60			20-30% mottled orange brown stain by minor FeO				C/5/55 C/5/60	
			inclusion				C/5/65	
70	DECOMPOSED BASALT: -orange reddish brown - relict fine grained texture - a few vesicles.						C/5/70 C/5/75	
80	Decomposed BASALT: ~~orange~~ -green - light greyish -chloropalised						C/5/80	
88	into fresh BASALT - dark grey, fine - medium grained - some vesicles green to brownish vitreous mineral - olivine? - some fine magnetite						C/5/85 C/5/88	80' Down hole hammer drilling - air flush - no gamma logged - no anomalous radiation detected ± hand held scintillometer on cuttings.
90	END OF HOLE - 88'							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/6
LOCATION 2½ miles NE. of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 40 feet.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED not logged
GEOL. LOGGED R J. Willink
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10 feet = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	IRONSTONE CLAY Cuttings predom clay, brown, fine gr homog 30% of cuttings - hard ironstone fragments angular, dark brown Common limonite nodules - sub rounded 1/4" 10%	— — (Fe) — —	As ferrug staining As 30% ironstone As 10% lim nods	nil	Alt. to clay mins.		C/6/0-5	Cuttings water flushed
10	Recent GRAVEL Poorly sorted. Variably coarse to very coarse Const. frags include abundant Qtz, predom white, sub rounded to angular	(Fe)	As ferrug staining	nil	As minor const of		C/6/10	
20	Ironstone - brown abundant 5-10', ang F/spar yellow to pink, sub rounded Basalt frags - minor. sub rounded black & profound igneous texture. Minor sandstone, qtzite, chalcedony fragments Overall yellowbrown colour due to ferruginous staining of sandy silt matrix + const frags	(Fe)	As silty sand matrix As ironstone sub ang frag, 5-10'		gravel yellow to pink sub rnded frags		C/6/15 C/6/20 C/6/25	
30	30% of cuttings - FINE SAND TO SILTY SAND Yellow ferrug staining throughout & apparent major Qtz (clear) in fine gr silty matrix 70% of cuttings - coarse gravel (contam?)		As ferrug yellow stain of silty matrix	nil	?	-	C/6/30	
	Recent GRAVEL As from 5'-25'		As from 5-25' & in ferrugst & depth.	nil	As from 5'-25'		C/6/35	
40	BASALT Cuttings 50% basalt frags - black, ang, & igneous texture. 50% gravel contamination	V V	—	—	—		C/6/40	
	END OF HOLE - BASALT - 40 FT.							Drilling terminated due to excessively slow drilling rate through basalt.
50								
60								

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/7
LOCATION 1½ miles NE. of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 22 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED not logged.
GEOL. LOGGED R. J. Willink
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10 ft = 1 in

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
	SILTY CLAY mottled brown (ferrugst) and grey. Cuttings predom clay c̄ minor 30-40% silt component fine gr, homog text Constituents predom claymins		As ferrug brown stain	np	Alt to clay mins?		C/7/0-5	Cuttings water flushed Gradational boundary
10	SANDY SILT Predom silt c̄ minor fine sand component Homog texture Light grey to white in colour Sand c̄ apparent sub rnded clear fine gr Qtz constituent.		np	np	Alt to clay mins?		C/7/10 C/7/15	
20	BASALT Dark brown to dark grey, hard angular fragments c̄ apparent igneous text Relatively fresh c̄ hardness ↑ c̄ depth as degree of decomposition ↓ c̄ depth.	V V V V V V	–	–	–		C/7/20 C/7/22	
30	END OF HOLE - 22 FT - BASALT.							Drilling terminated due to excessively slow drilling rate through basalt (3ft/hr)
40								
50								
60								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/8
LOCATION 3½ miles NE of LOBARA JUNCTION
COORDS N = E
TOTAL DEPTH 27ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED not logged
GEOL. LOGGED R.J. Willink
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10ft = 1in

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	TOP SOIL - SILTY CLAY - brown. ferrug stained silty clay Fine gr. homog Constituents predom clay mins.	CLAY	As ferrug stain	n.p	Aft. to clay minerals	-	C/8/0-5	Cuttings water flushed
10	Recent GRAVEL Poorly sorted. Constituents include major Qtz, white to grey, subrnded. ironstone frags, sub ang, abundant 2-10/1 ½ depth; minor f/spar - pink to brown,		As ferrug staining of silty matrix	n.p	As minor const of gravel	-	C/8/10	
20	qtzite, petrified wood (rare), basalt & sand stone pebbles - subrnded 15'-20' Common grey clay 5-10% frags through cuttings Probable band through gravel OR clay as in basalt? 20'-20' Common 5% silt, sandy silt frags - bands		As ironstone frags 2-10		pink to brown frags subang		C/8/15 C/8/20	
	BASALT Relatively fresh (undecomposed) Dark grey to brown, hard, angular frags Hardness ↑ e depth.		-	-	—		C/8/25 C/8/27	
30	END OF HOLE 27 FT - BASALT							Drilling terminated due to excessively slow drilling rate through basalt.
40								
60								
6o								

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PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/9
LOCATION 3¾ miles NE of CONARA JUNCTION
COORDS N E
TOTAL DEPTH 27'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED T.W. MIDDLETON
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 26/11/73
COMPLETED 26/11/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	CLAYEY TOPSOIL to 1' - then PEBBLY Gravel - subround - round, qtz, qtzite, siltstone to 4cm - poorly sorted - minor sand silt.	minor FeO stain	nil	Faint pink (decomp.)		C/9/5	
10	PEBBLY, CLAYEY SAND ~20% pebbles, round to subround to 3cm - abt. coarse gritty sand - qtz, minor f'dpar - white, decomposed basaltic detritus (+ granite detritus?)	faint FeO stain		Kaol. f'spar thru'out.		C/9/10	
~18'		to matrix and orange qtz grains		~5%		C/9/15	
20	BASALT:					C/9/20	
	very fresh from ~24'					C/9/25	
30	END OF HOLE - 27' - unable to penetrate.					C/9/27	

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PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/10
LOCATION
COORDS N E
TOTAL DEPTH 120'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED T.W. MIDDLETON
HOLE DIAMETER
PROBE DIAMETER

STARTED 26/1/73
COMPLETED 26/1/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
	SANDY PEBBLY CLAY Khaki-brown few qtz & limonite pebbles to 20mm		surface ferrug. stain	n.p.	n.p.		C/10/5	
10	SANDY CLAY. -khaki brown mottled orange - some gritty qtz grains ~10%		faint orange brown mottling	"	"		C/10/10	
	SANDY PEBBY CLAY. -light grey clay matrix predom. = abt. small qtz subrnd. to ang. pebbles and grains 15-20%		faint FeO stain qtz grains	"	"		C/10/15	
20	GRITTY PEBBLY GRAVEL Predom. 5mm-10mm small qtz, qtzite, sandstone, greywacke rnd. to subround fragments = minor sandy silty matrix 5-10% Few pebbles to 10-30mm.		orange FeO stain matrix. some FeO stain pebbles -orange.	"	few small particles of kaol. f/spar grains -white		C/10/20 C/10/25 C/10/30	
40	as previously GRAVEL but overall decrease in grade to more Sandy		minor FeO stain	"	increase in particles of kaol. f/spar 2-3%		C/10/35 C/10/40	
	BASALT. -fairly soft decomposed greenish colour -some chloropal.	V V V V V	some FeO seams.	"			C/10/45	
50	GRAVEL = interbedded CLAY -gravel decreases = depth gravel and sand ~50% -average.		minor orange FeO	"	5-5% particles kaol. f/spar		C/10/50	
60	-pebbles to 5cm -qtz, qtz/lte, clear, milky, round to subround CLAY -light medium grey -minor orange brown mottling		Stain qtz, f/spar	"			C/10/55 C/10/60	
70	CARBONACEOUS CLAYEY SILT predom. + interbeds of CLAY - light grey, some CLAY - orange brown FeO stain GRAVEL 5-10% decreases = depth.		5-10% orange FeO Stain clay throbout some FeO stain pebbles persist thru' out.	ave 10% overall brown peaty material -some recognisable wood chips	n.p		C/10/65 C/10/70 C/10/75 C/10/80	
80							C/10/85	
90							C/10/90 C/10/95	
100							C/10/100	
	MOSTLY DECOMPOSED DOLERITE CLAY DETRITUS? = CARB SILT, GREY CLAY +~10% qtz PEBBLES.		~10% Ferrug. clay	n.p.	n.p.		C/10/105	
110	DECOMPOSED DOLERITE. -contamination from above persists to 115'	+ + + + + + + +	n.p	n.p.	n.p.		C/10/110 C/10/115	
120							C/10/120	
	END OF HOLE 120'							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/11
LOCATION In creek midway between c/8 and c/9
COORDS N - E
TOTAL DEPTH 12 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED not logged.
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10 ft = 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	CLAY Dark brown to black., homogeneous text, fine gr Plastic. Constituents predom clay mins Minor silt component.	— — — — — —	As ferrug staining	As possible intra-stital?	Alt to clay mins?	-	C/11/0-5	Cuttings air flushed.
10	SAND Predom fine sand± minor silt component Sand± abundant Qtz, brown ferrug stained frags Rare reflecting specks - clay mins?	. . . . .	As ferrug staining	n.p	Alt to clay min?	-	C/11/10	
	BASALT Extremely hard, little decomposed angular dark grey fragment± apparent igneous text	V V	• -				C/11/12	
20	END OF HOLE 12 FT - BASALT							Drilling terminated due to excessively slow drilling rate through basalt.
30								
40								
50								
60								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. C/12
LOCATION
COORDS N E
TOTAL DEPTH 114 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 26/1/1973
COMPLETED 26/1/1973
SHEET 1 OF 1
SCALE 10 feet = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
	GRAVEL - recent Poorly sorted Abundant Qtz (rnded to sub ang) brown to white Minor fl/spar, basalt lithic frags, + abundant limonite nodules. Minor brown ferrug st silty clay matrix	(Fe)	As ferrug staining + limonite nodules	n.p	As minor gravel const <5%	-	C/12/0-5	Cuttings water flushed
10	BASALT - relatively undecomposed and hard fragments fine gr igneous texture & variable grey-green to brown colouration.	V V V	-	-	-	-	C/12/10	
20	Upper and lower boundaries more decomposed → softer.	V V V V					C/12/15 C/12/20	
30	CLAY Variable light grey to dark grey in colour fine gr, homogeneous. Constituents predom clay minerals. Possibly after basalt??	— ? —	n.p	n.p	Alt to clay mins?		C/12/25 C/12/30	
		?					C/12/35	
40	SILTY CLAY 30% of cuttings.. apparent igneous Texture? Common white specks (kaolin?) & minor fine gr Qtz? Possibly after basalt?? 70% clay	— ? —	n.p	n.p	Kaolin white specks?		C/12/40	
	CLAY - dark grey, fine gr as from 20-35'.	— —	n.p	n.p	Alt to clay mins?	-	C/12/45	
50	SANDY SILT fine gr, homogeneous texture Brown ferrug staining throughout Apparent Qtz (fine gr) in silty matrix	(Fe)	Ferrug. staining throughout	n.p	Alt. to clay mins?	-	C/12/50	
60	INTERBEDDED SILTY SAND AND GRAVEL Silty sand - variable greenish grey to purple-grey Predom sand & apparent Qtz and lithic fragments Minor greenish to purple silty clay matrix Gravel abundant 20% from 55-60ft & depth Pebbles include Qtz, Qtzite, peaty chips + minor fl/spar		n.p	As rare peaty chips 1-2% 55-60'	Alt to clay mins. + minor gravel const.	-	C/12/55 C/12/60	
70	CARBONACEOUS SILTY CLAY. Dark brown & common black carbonaceous specks in fine gr, predom clay & minor silt matrix Silt with apparent yellow brown specks (kaolin after fl/spar?) Carbon as black specks + fine gr interstitial giving rise to brown colouration Overall homog texture.		n.p	As black carbonaceous specks randomly scattered through silty clay matrix 10%. As, interstitial to matrix.	Alt to clay mins Kaolin after fl/spar Fine silt?	-	C/12/65 C/12/70 C/12/75 C/12/80	
80							C/12/85	
	SANDY SILT Fine gr, homog texture Grey Brown due to minor interstitial carbon Apparent yellow specks - kaolin?		n.p.	As minor interstitial	Yellow specks 5% Kaolin?	-	C/12/90	
90	CARBONACEOUS SILTY CLAY As from 60'-82' Gradational boundary.		n.p	As from 60-82'	As from 60-82'	-		
	CARBONACEOUS CLAY Fine gr, homog Dark brown Plastic Predom clay & minor silt component. <5% to carbon as fine gr interstitial + rare peaty chips Gradational boundary		n.p	≈ 20% carb. material ↑ depth	Alt. to clay mins?	-	C/12/95 C/12/100	
100	PEAT Predom carbonaceous material		n.p	70-80%	n.p	-		
	as decomposed peat and peaty chips Minor silty clay fragments scattered through cuttings - possible bands through peat? Overall brown to black colour			Carbonaceous material			C/12/105 C/12/110	
110	CLAY AFTER DOLERITE Grey green.. apparent igneous texture (coarse gr) Hardness ↑ & depth 112-114' - hard black frag of relatively fresh dolerite	+ + + + + +	-	-	-	-	C/12/114	
	END OF HOLE 114 FT - DOERITE BASEMENT.							
120								
130								

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT . TASMANIA

HOLE NO. C/13
LOCATION
COORDS N E
TOTAL DEPTH 12'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED T.W. MIDDLETON
HOLE DIAMETER
PROBE DIAMETER

STARTED 26/1/73
COMPLETED 26/1/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	shallow TOPSOIL - and grey CLAY into relatively fresh BASALT	?					C/13/5	
10							C/13/10	
12'							C/13/12	
	END OF HOLE - UNABLE to penetrate further.							

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/1
LOCATION 3mls WSW of Cleveland.
COORDS N E
TOTAL DEPTH 73 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink.
HOLE DIAMETER
PROBE DIAMETER

STARTED 26/11/1972
COMPLETED 26/11/1972
SHEET 1 OF 1
SCALE 10 ft = 1 inch.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	GRAVEL. Relatively poorly sorted. Max diam. of particles 1/4". Qtz predom. 80% subrounded. Stained or colourless. F/spar < 20% angular. Occasional larger particles of Qtz up to 1". Rare lim nods 1/4" < 1%.		Some infrequent lim nods 1/4" < 1%.	n.p.	< 20% const. frags ≑ 1/8" diam	–	D/1/0-5 D/1/10	Cuttings water flushed
10 ft	CLAY - Variation of colours. Mottled. Some pebbles due to contamination from above. Constituents include obvious Qtz.		n.p.	n.p.	?	.	D/1/15	
	CLAY - 15-25 ft - grey to brown 25-30 ft - light brown. Mottled appearance. Const. frags include obvious Qtz. Even tex.		As rare lim nods 1/2" 1-2%				D/1/20	
20 ft	Infrequent lim nods. up to 1/2". 1-2%. Brown colour possibly due to ferrug. st. % of lim nods ↓ c̄ depth.		↓ c̄ depth and probable ferrug st. giving brown colour	n.p.	?	–	D/1/25 D/1/30	
30 ft	CLAY AFTER DOLERITE - igneous texture. Variable in colour.						D/1/35 D/1/40	
40 ft							D/1/45 D/1/50	
50 ft							D/1/55 D/1/60	
60 ft							D/1/65 D/1/70	
70 ft	End of Hole 73 ft.						D/1/73	
80 ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/2
LOCATION
COORDS N E
TOTAL DEPTH 75 ft.
COLLAR ELEV.

CONTRACTOR Flustral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R J Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 27/11/1972
COMPLETED 27/11/1972
SHEET 1 OF 1
SCALE 10 ft = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No	COMMENTS
	SANDY CLAY 0-5 ft - brown colour due to surface activity 5-10 ft - red- ferrug staining Lim nods ∠1/4" (5%) rounded. Overall mottled appearance Qtz obvious const of sand		As ferrug stain + lim nods 5% ∠1/4" rounded	nil	?	-	D/2/0-5 D/2/10	Cuttings washed Washed
10 ft	CLAY - predom grey to white, fine gr, even text. Ferrug patches frequent, brick red in colour (30%) even grained (slightly coarser than clay - possibly weathered limonite nodules?		As ferrug patches (more compact than clay) 30% ↑ w depth	nil	?	-	D/2/15 D/2/20	
20 ft	CLAY - grey to white Even textured Notable absence of ferrug patches Possibly derived from dolerite beneath?						D/2/25 D/2/30	
30 ft							D/2 35	
	CLAY AFTER(?) DOLERITE Distinct igneous texture	+ +					D/2/40	
40 ft		+ +					D/2/45 D/2/50	
50 ft		+ +					D/2/55	
		+ +					D/2/60	
60 ft		+ +					D/2/65	
		+ +					D/2/70	
70 ft		+ +					D/2/75	
	End of Hole 75 ft.						~~D/2/80~~	
80 ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/2ii
LOCATION ~1½ miles S.S.W of CLEVELAND
COORDS N E
TOTAL DEPTH 110'
COLLAR ELEV. 647' A.S.L.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED not logged
GEOL. LOGGED P. GRIFFITHS
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 28/11/73
COMPLETED 28/11/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY ± SILTY SAND Bands							
	silty clay, orange brown ± some red brown streaks - plastic	Fe	100% orange brown + abt. lim. nods.	n.p.	n.p. Alt. to clay min's.		D/2ii/5	
10	(30-40%) SILTY SAND: - fine to very fine qtz, round to subround - orange brown stained in and orange brown silty matrix	Fe					D/2ii/10	
13'	SILTY CLAY - yellow brown stain in predom light to dark grey silty clay - plastic		yellow brown 10-20%	"	"		D/2ii/15	
15'	CLAY: - light grey ± minor yellow orange stain - plastic		"	"	"			
	CLAY ± SILTY CLAY Bands:							
20	Clay: a mottled light grey to yellow orange to red brown, plastic, homog. texture. - stain decreases ± depth. - thin bands of yellow orange silty clay		50-60% yellow orange streaked brown stain to clay	"	"		D/2ii/20	
~23'			30-40% red brown				D/2ii/25	
~28'	SANDY CLAY 5-10% fine to very fine qtz, colourless in a mottled, buff to predom. light grey, plastic clay matrix		~30% buff. clay.	"	"			
30	CLAY: - leached to a chalky white - well to moderately compacted - ± minor black mineral? specks. scattered through clay.		n.p.				D/2ii/30	
~33							D/2ii/35	
	CLAY AFTER BASALT: (possibly clay 28-33 is also)	V V						
40	- highly leached ± abt kaolin. and minute black specks of a decomposed mafic mineral scattered through the clay.	V V					D/2ii/40	
	33-46: clay - little to no igneous texture. - a greyish purple tint to overall white clay.	V					D/2ii/45	
50		V V					D/2ii/50	
	45-~~50~~ 55: a mottled pink to white	V					D/2ii/55	
		V V						
60		V					D/2ii/60	
		V V					D/2ii/65	
		V						
70		V V					D/2ii/70	
		V					D/2ii/75	
	75-80 clay predom. a yellow brown - igneous texture visible.	V V					D/2ii/80	
80	80-85 Thin band of partially decomposed Basalt. - moderately hard.	V					D/2ii/85	
	85-103: yellow brown clay after dolerite as for 75-80.	V V						
90		V					D/2ii/90	
		V V					D/2ii/95	
		V						
100		V V					D/2ii/100	
	at ~103, clay has a greenish colour. -	V					D/2ii/105	
	at ~109 hard fresh BASALT?	V V					D/2ii/110	
110		V ?						

END OF HOLE - 110' - unable to penetrate further after ½ hr. on rock bit

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/3(i)
LOCATION
COORDS N E
TOTAL DEPTH 30 ft
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED
HOLE DIAMETER
PROBE DIAMETER

STARTED 27/11/1972
COMPLETED 27/11/1972
SHEET 1 OF 1
SCALE 10 ft = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY - brown in colour. Coarse texture due to ferruginous hard patches <1/4" (possibly weathered lim nods)? 25%. Silt predom Qtz with some flspar? Rare lim nods. < 1/8"		As ferrug patches 25% + rare lim nods <1/8"	n.p.	As silt const.?		D/3(i)/0-5	Cuttings water flushed.
	CLAY - mottled grey to brick red. Contains large well rounded lim. nods up to 1" diam. (≑ 5%) Red clay 50% Const. frags of clay include Grey clay 45%. obvious Qtz.		As ferrug stain + lim nods 5% up to 1"	n.p	?		D/3(i)/10	
10 ft	SILTY CLAY - brown in colour. Texture resembling silty clay 0-5 ft. Coarse feel. due to presence of harder ferruginous patches. (brick red - 30% abundance). Frequent lim nods., hard up to 1/4" diameter 2-3%. Abundance of nods.		As ferrug patches 30% and as lim. nods 5% (1/4")	n.p	?		D/3(i)/15 D/3(i)/20	
20 ft	↓c̄ depth.		↓c̄ depth.				D/3(ii)/25 D/3(i)/30	Water loss too great to continue drilling. No return. Drilling terminated.
20 ft	End of Hole 30 ft.							

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1333

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D3(ii)
LOCATION 100m along line towards D/4 from D/3(ii).
COORDS N E
TOTAL DEPTH 60 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 27/11/1972
COMPLETED 27/11/1972
SHEET 1 OF 1
SCALE 10 ft = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	CLAY- predom. brown in. colour. Often mottled with grey clay. Even textured. Homogeneous text. with red patches of ferruginous material. (possibly weathered lim. nods?). (2%)	— —	As ferrug. patches 2% + lim nod (frequent) 2-3%	n.p	?	-	D/3(ii)/0-5	Cuttings water flushed.
	Frequent intact lim nods. - upto 1/2" diam. well rounded. Qtz is obvious const. of clay.	— —	upto 1/2" well rounded				D/3(ii)/10	
10ft		— —					D/3(ii)/15	
	SILTY CLAY - light brown. Even text. Infrequent lim nods. <1% (contam). Qtz obvious const.	— —	As rare lim nods <1%	n.p.	?		D/3(ii)/20	
20ft	SILTY CLAY - grey in colour - Even text. NO lim nods.	— —	n.p.	n.p	?		D/3(ii)/25	
	SILTY CLAY light brown. Even text. Presence of carbonaceous material as peaty chips (<1%) notable feature.	— —	n.p.	As small peaty chips <1%	?	-	D/3(ii)/30	
30ft	SILT - Light brown. homogeneous texture. Fine gr. Qtz obvious major const. Some f/spar evident - altered to kaolin?		n.p.	n.p.	Minor Kaolin after f/spar?		D/3(ii)/35	
							D/3(ii)/40	
40ft	CLAY AFTER DOLERITE - grey in colour igneous texture.	+ +					D/3(ii)/45	
		+ +					D/3(ii)/50	
50ft		+ +					D/3(ii)/55	
		+ +					D/3(ii)/60	
	End of Hole 60 ft	+ +						

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO D/3 iii
LOCATION ~1 mile S. of CLEVELAND
COORDS N E
TOTAL DEPTH 420'
COLLAR ELEV. 671' A.S.L.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED D. TOWERY
GEOL. LOGGED P. GRIFFITHS.
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 27/1/73
COMPLETED 28/1/73
SHEET 1 OF 2
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
5'	CLAY: light to dark grey ± red brown to yellow brown staining - plastic ± ~5% orange brown silty clay	— —	50-60% red brown stain ~5% yellow brown	n.p.	n.p.		D/3iii/5	
10	SANDY SILTY CLAY: 5-10% 5-10': medium to very fine qtz ~5% subang to subrnd in a light to dark grey silty clay	· ·	80-90% "	"	"		D/3iii/10	
20	10-15: as above + abt. limonitic nod's in sandy silty clay 15-20' 1-5% qtz in a buff silty to predom clay matrix.	· ·	80-90% buff +5-10% orange brown	rare stem of plant	-		D/3iii/15 D/3iii/20	
30	CLAY AFTER BASALT: 20-25: dark grey to greenish grey - faint igneous texture. - minute black specks (1-2%) 25-45: fawny brown predominantly ± some light to dark grey bands. - faint igneous texture.	V V					D/3iii/25 D/3iii/30	
40	- small to large white to yellowy white kaol. inclusions	V V					D/3iii/35 D/3iii/40	
50	45-55: a greenish brown ± orange brown bands - abt kaol. + minute black mafic specks.	V V					D/3iii/45 D/3iii/50	
60	55-85: a greenish grey. - abt. kaol. + minute black specks (1-2%) - faint igneous texture.	V V					D/3iii/55 D/3iii/60	
70		V V					D/3iii/65 D/3iii/70	
80		V V					D/3iii/75 D/3iii/80	
90	85-98': grey to dark brown - no igneous texture evident.	V V					D/3iii/85 D/3iii/90	
~98'		V V					D/3iii/95	
100	SILTY SAND	· ·	1-5%	n.p.	rare		D/3iii/100	
110	fine to very fine qtz (colourless) subang to subrnd +1-3% black specks in a creamy yellow silt matrix - rare white x tals - f'dpar. grades into a	· ·	orange brown stain to matrix		white x tals f'dpar		D/3iii/105 D/3iii/110	
~112'	SANDY SILT ± SILTY SAND Bandss	· ·	n.p	n.p.	"		D/3iii/115	
120	overall decrease in % qtz → sandy silt 80% - as above but ± a grey silty matrix. + ~1% black specks	· ·					D/3iii/120	
		· ·					D/3iii/125	
130	GRITTY SAND: Predom coarse to very coarse ± ~20-30% up to 3-4 m.m. - ang to subrnd qtz - colourless + rare white qtz + 5-10% grey lithic frag's.	· ·	n.p.	rare carb. wood	n.p.		D/3iii/130	
~133'		· ·					D/3iii/135	
140	Bands of SILTY SAND (50%) + SANDY SILT (30-40%) as for 112'-125'.	· ·	"	rare peaty flakes in sandy silt.	rare white Kaol speck.		D/3iii/140	
	Bands of Slightly Carb. SANDY SILT (~70%) + CLAY (20-30%): - Sandy silt: ↓ in qtz content to 5-10% qtz in a silty matrix ± 5-10% peaty frag's - clay is grey - plastic (remod. compact	· ·	"	5-10% peaty flakes in sandy silt	n.p.		D/3iii/145	
150	Carb SANDY SILTY CLAY: 1-5% rnd very fine qtz in a grey to brown silt (50-60%) to clay (~40%) matrix ± wood + peaty flakes + C. as an interstitial component of matrix	· ·	n.p.	~5% carb. wood frags +~5% peaty flakes	"		D/3iii/150	
160	150-155: GRITTY SAND: as above 125-133'. - has 1-2% white f'spar + rare qtz' ite pebble up to 5-10 mm - angular. 155-160' PEBBLY SAND ~5-10% white qtz' ite pebbles up to 10 mm	· ·	"	1-3% carb. wood n.p.	1-2% white x tals (angular) n.p		D/3iii/155 D/3iii/160	
~168'	PEBBLY GRAVEL: ~20% white qtz' ite pebbles up to 10-15 mm rest is predom qtz - colourless - ang to subrnd - average size 3-5 mm. ± ~1-3% grey lithic frag's.	· ·					D/3iii/165	
170	SANDY SILT:	· ·	rare	1-3%	1-5%		D/3iii/170	
180	10-20% qtz. fine to very fine, round to subround + ~5% white Kaolin flecks + 1-5% green mafic mineral + 1-2% white mica flakes in a grey green (± brown bands (1-5%)) silty matrix	· ·	orange stain	wood frag's - peaty soft dark brown	white Kaol. flecks.		D/3iii/175 D/3iii/180	
190		· ·	"	"	"		D/3iii/185 D/3iii/190	
200		· ·	"	"	"		D/3iii/195 D/3iii/200	

200		..	..	..		D/3iii/205	
						D/3iii/210	
210						D/3iii/215	
						D/3iii/220	
220						D/3iii/225	
	CLAYEY SILT ± minor SAND Bands		n.p.	rare peaty flakes	rare to no Kaol.	D/3iii/230	
230	clayey silt: ↓ in qtz content to 1-2% + rare to no kaolin flecks in a greenish grey silt (predom.) to clay (10-20%) matrix - 1-2% mica flakes ↑1-3% green mafic minerals.		..	..	..	D/3iii/235	
	FELS. SAND: ≤ very coarse xtals. - predominantly ang. to sub round qtz - colourless. + some		n.p.	n.p.	5% pink + 5-10% white.	D/3iii/240	
240	pink to white f/spar xtals - predom angular + 1-5% grey lithic frag's + rare mica flakes.		..	..	..	D/3iii/245	
250						D/3iii/250	
	250-260: - 1-2% red lithic frag's + an increase in xtal size ± 5-10% up to 3-4mm.		..	..	..	D/3iii/255	
260					..	D/3iii/260	
	Bands of SANDY SILT (60%) as for 168-225' + FELS SAND (40%)			~5% brown carb bands ± abr peaty flakes in sandy silt	in sand + 1-5% Kaol in sandy silt.	D/3iii/265	
	Bands of Fels SAND (~80%) ± SILTY SILTY SAND (10-20%) (as for 133-140') + minor SILTY CLAY lenses - plastic - refer Fe column.	~5% yellow orange silty clay	rare peaty flakes	5% pink + 5-10% white + rare to no Kaol in sand	sand	D/3iii/270	
270						D/3iii/275	
	Predom Carb SILTY SAND ± ~10% FELS. SAND.	1-5% yellow orange stain	abt dark brown peaty flakes in bands - silty sand	~5% pink + 5-10% white + 1-2% white Kaol. in silty sand.	sand	D/3iii/280	
280	silty sand: fine to very fine qtz subang to subrnd + 5-10% green mineral + 1-3% kaol flecks + abt. dark brown peaty bands ± in a grey green to brown (30%) silty matrix	to silty sand				D/3iii/285	
	Predom FELS. SAND + 5-10% carb SILTY SAND (as above) + Carb wood frag's	n.p.	1-2% carb wood frags	~5% white xtals		D/3iii/290	
290	Sand: xtal size ≤ medium ang to subrnd predom qtz - colourless + ~5% white f/spar + ~5% green to grey lithic frag's.	..	~20% wood frag's	- rare pink xtals.		D/3iii/295	
300						D/3iii/300	
	300-305' xtal size increases — 10-20% very coarse.	..	5-10% wood frags			D/3iii/305	
~307'			10% wood frags	1-5% white Kaol		D/3iii/310	
	Carb. SANDY SILT:	..	~5% wood frags	..		D/3iii/315	
310	fine to predominantly very fine qtz (5-10%) - round to subrnd + 1-5% white Kaolin flecks + 1-3% green mineral + 1-2% mica flakes in a predominantly brown silt matrix - abt peaty stringers. ± C. as an interstitial component of matrix		..			D/3iii/320	
320	Predom very coarse FELS SAND as for 240-260'	n.p.	~10% wood frags	5% pink 5% white		D/3iii/325	
	CARB SANDY SILT: as for 307-320'	..	abt. peaty flakes	1-5% Kaolin		D/3iii/330	
330	± minor % of qtz rite frag's => small pebble bands.	..		..		D/3iii/335	
						D/3iii/340	
340		..	..	..		D/3iii/345	
			..			D/3iii/350	
	CARB SANDY SILT + 10-20% SAND Bands (Fels)	..	..	5% white 5% pink in sand + 1-5% kaol. in sandy silt		D/3iii/355	
360	sand - medium to very fine xtals	..				D/3iii/360	
	Carb SANDY SILT: a decrease in very fine qtz (1-5%)	..	..	1-5% Kaol.		D/3iii/365	
				..		D/3iii/370	
370						D/3iii/375	
						D/3iii/380	
380						D/3iii/385	
						D/3iii/390	
390						D/3iii/395	
	CLAY AFTER DOLERITE: grey blue clay - abt kaol. (white) in grey blue background → dolerite texture.	+ + +	..			D/3iii/400	
400		+ + +				D/3iii/405	
		+ + +	..			D/3iii/410	
410	410 - 420. - bright green clay ± some red brown stain	+ + +				D/3iii/415	
		+ + +	10-20% red brown stain			D/3iii/420	
420	END OF HOLE.						

5 cm

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/4
LOCATION
COORDS N E
TOTAL DEPTH 45 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 27/11/1972
COMPLETED 27/11/1972
SHEET 1 OF 1
SCALE 10 ft = 1 inch.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10ft	CLAY- predom. grey with frequent brown streaks giving it a mottled appearance. Frequent lim. nods 1-2% up to 3/4" diam. Well rounded. Fine gr, even text. Couldnot differentiated any minerals.		As frequent lim nods 1-2% up to 3/4" well rounded	n.p.	?	-	D/4/0-5 D/4/10	Cuttings water flushed.
							D/4/15	
20ft	SILTY CLAY- light brown to fawn., Even texture. Rare large lim. nods 1" well rounded. Qtz obvious const. of silt, Possibly Flspar- altered to kaolin? (white patches).		As rare large lim. nods up to 1"	n.p	Kaolin after Flspar? minor.	-	D/4/20 D/4/25 D/4/30	
30ft								
40ft	CLAY AFTER DOLERITE - igneous texture. Brown to fawn in colour. No lim. nods.	+ + + + +					D/4/35 D/4/40	
	End of Hole 45 ft.	+ + + + +					D/4/45	
50ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. D/4 ~5yds West of D/4ii
LOCATION ~1½ miles S S E. OF CLEVELAND
COORDS N E
TOTAL DEPTH 95'
COLLAR ELEV. 679' A.S.L.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED D TOWERY
GEOL LOGGED P GRIFFITHS
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 27/1/73
COMPLETED 27/1/73
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
~5'	CLAY: ≈ 5% as SILTY CLAY Bands mottly light grey to predom orange brown stain ≈ a thin orange brown silty clay bands ~5% of whole. - clay is plastic - abt lim. nods.		80-90% orange brown stain + lim nods.	n.p	n.p.		D/4ii/5	ignore line
10'	5-10' clay pred light grey ≈ yellow orange to red brown stain + thin bands of yellow orange to red brown silty clay - poorly compacted		5-10% yellow orange to red brown	"	"		D/4ii/10	
	10-15' clay as above + 10-20% silty clay bands as for 5-10' ≈ 10-20% lim. nods.		10-20% "	"			D/4ii/15	
20'	SILTY CLAY - Well compacted - buff to orange brown - rare kaolin grains - abt. limonitic frags.		100% stained - buff to orange brown.	"	rare white kaol.		D/4ii/20	
30'	SANDY SILTY CLAY: ~5-10% very fine round qtz Xtals + 1-2% minute grey lithic specks + 5-10% well compacted silty clay inclusions in a creamy white silty clay matrix (predom clay) - ~10% lim. nods. 25-30' - predom. white silty clay matrix - plastic		10-20% orange stain + ~10% lim nods. "	"	Kaolinized matrix ?		D/4ii/25 D/4ii/30	
40	SANDY SILT: very fine qtz (predom rnd Xtals) + 1-3% grey lithic grains - in a white silt matrix - minor orange stain 35-40: stain ↑'s		~5% orange stain 30-40% orange brown stain	"	"		D/4ii/35 D/4ii/40	
50	SANDY SILT (80-90%) ≈ SILTY SAND (5-10%) Bands. as above but ≈ 1-5% definite white f/spar xtals. - at varying intervals an increase in % qtz, gives a SILTY SAND. Bands. - orange staining increases up to 60' & then decreases.		5% orange xtals + matrix 5-10% orange "	"	1-5% f/spar X tals.		D/4ii/45 D/4ii/50	
60			60-70% orange "	"	"		D/4ii/55 D/4ii/60	
70			20-30% orange " 5-10% orange "	"	"		D/4ii/65 D/4ii/70	
~78'	PEBBLY GRAVEL: ~80% qtz pebbles - a resize 3-5mm rnd to subrnd + 10-15% white f/dpar xtals angular to subround + 1-3% pink f/spar + minor grey lithic frag's. NB: qtz is predom colourless		5-10% qtz orange stain	n.p	10-15% white 1-3% pink		D/4ii/75 D/4ii/80	
80	78-80' CLAY AFTER BASALT **	V V						** - light green - igneous texture
90	BASALT - greenish brown - relatively fresh - increase in freshness with depth. 85-90' - gas vesicles evident.	V V V V V					D/4ii/85 D/4ii/90	
	90-95. Fresh grey basalt.	V V V					D/4ii/95	
100	END OF HOLE - as could not penetrate. hard basalt.							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F1 — CONTRACTOR — STARTED 30/11/72
LOCATION — GAMMA LOGGED — COMPLETED 30/11/72
COORDS N E — GEOL. LOGGED P GRIFFITHS — SHEET OF
TOTAL DEPTH 120' — HOLE DIAMETER — SCALE
COLLAR ELEV. — PROBE DIAMETER

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY Lateritic - predom orange - Fe(lim) nods up to 10mm + fdpar frag up to 5mm - rare frag of black? - in orange clay to silt matrix.		lim nods up to 10mm ~20% - orange stain 100%	rare frags?	2-4% frags.		F/1/5	
7'							F/1/10	
	SANDY SILT: - mottly brick red, orange to grey.		5'-10': brick red to orange stain ~80%	n.p.	n.p.			
10	- predom fine to very fine rnd to subrnd qtz in a silt matrix.		10-15': ↓ to ~60% stain - light orange				F/1/15	
15							F/1/20	
	COARSE ARKOSIC SILTY SAND: - poorly sorted - grain size from 2mm to silt - ang to subang xtals of qtz (40%) + f'dpar (30%) in an Fe stain (orange) silt to clay matrix (30%) - rare C. (black) specks.							
25							F/1/25	
	PEBBLY SILTY CLAY: Poorly sorted - mottly light grey to orange silty clay matrix - small pebbles of qtz (~90%) + f'dpar (10%)		50% - orange matrix		~10% of pebbles.		F/1/30	
30	% & size of pebbles ↑ = depth. 20-25' ~20% - up to 4mm		↓ in red orange stain to ~20%					
	25-30' ~10% " " "						F/1/35	
35	30-35' ~40% " " 8mm grades into a							
	PEBBLY GRAVEL: Very poorly sorted - rnd to subrnd qtz + fdpar pebbles down to sandy silt matrix		orange stain	n.p	10%		F/1/40	
40'	Size of pebbles ↑ = depth							

	% Pebbles	size of pebbles	% matrix	% qtz	% fdpar
35-40'	10	up to 4mm	40	40%	10
40-50'	10	up to 10mm	40	50	10
50-55'	50	up to 20mm	30	60	10
55-60'	20	up to 25mm	50	40	10
60-65'	10%	up to 10mm	55	40	5
65-70'	30%	up to 25mm	55	40	5
70-75'	10%	up to 10mm	50	40	10

45							F/1/45	
							F/1/50	
50								
							F/1/55	
							F/1/60	
60					5%		F/1/65	
					"		F/1/70	
70					"		F/1/75	
75	CARBONACEOUS SILTY CLAY: - dark brown - abt black C. specks - gritty fee (contamination)		5% orange stain	black specks 50%	n.p.		F/1/80	
80	CARBONACEOUS SANDY SILT: fine to very fine predom qtz xtals in a grey blue to green silty matrix. - abt peaty (black to dark brown) bands - rare mica specks - contamination = qtz pebbles.		n.p.	abt peaty bands (dark brown to black)	n.p.		F/1/85	
							F/1/90	
			"				F/1/95	
					bands of WHITE SANDY silt ~5%.	95'	F/1/100	
100'	WEATHERED DOLERITE:	+ +					F/1/105	
		+ +					F/1/110	
		+ +					F/1/115	
		+ +					F/1/120	

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F/2
LOCATION
COORDS N E
TOTAL DEPTH
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED
COMPLETED
SHEET OF
SCALE

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY - brown in colour, well sorted, even texture, predom Qtz + clay matrix. Lim. nods. (1/4"), 5%. Brown colouration due to ferrug. st. of matrix.		As ferrug st. in matrix	n.p.	Altered to clay minerals?	-	F/2/0-5	Cuttings water flushed.
10ft	SANDY SILT - predom. grey - mottled ± brown-red patches. Fine gr, well sorted, even texture, Predom. Qtz, some f/spar + fine matrix. Lim nods 1/4" 5%		5-10ft as lim nods 5% 1/4"	n.p.	As const. frags. fine gr.	-	F/2/10	
	Lim nods. ↑ ± depth, generally coarser gr. than surrounding matrix.		10-20ft as lim. nods coarse gr. size 3/4", 20%.		Altered?		F/2/15	
20ft	20-25ft - predom brown colour 60% due to ferrug st. Overall gr. size ↑ ± depth.						F/2/20	
			20-25ft as rare lim nods 2% + ferrug st. in matrix				F/2/25	
30ft	SILTY SAND - predom. grey, yellow grey at 35 ft. Predom. Qtz (80%), f/spar (15%) altered? and ferrug. patches (2-3%). Rare lim nods		As st. in rare patches 2-3%	1 n.p.	As. const. frags 15%		F/2/30	
	(contamination?) 25-40ft.		Rare lim nods 25-40ft		Altered?		F/2/35	
40ft	40-45ft - frequent lim. nods. 1/8" 20%		40-45ft frequent lim nods 1/8" 20%				F/2/40	
							F/2/45	
50ft							F/2/50	
60ft	PEBBLY SILTY SAND brown to grey., poorly sorted. % of pebbles ↑ ± depth. 50-55ft - 15-20% pebbles 1/8"-1/4" - predom Qtz, ang. - 80% silty matrix		as rare lim nods 2-3% Possibly contam from above?	n.p.	As const. frags 15% in sand and as minor const. of pebbles <5%	-	F/2/55	
	55-60ft - 30% pebbles - max 1/2" predom Qtz, sub ang. 70% silty sand matrix. Rare lim. nods 2-3% Silty sand - Composition as from 25-50ft.						F/2/60	
70ft	PEBBLY GRAVEL - poorly sorted. 60-75ft - 70% → 1/8"-1/4" - predom Qtz 80% sub rnded. f/spar 15-20% - orange, pink sub.angular. black min. ? 5% ang. 20% < 1/8" } Constituents same as 10% > 1/4" } gravel 1/8"-1/4".		as rare lim nods < 1%	n.p.	As const. frags ang. 10-15% usually 1/8" or less.		F/2/65	
							F/2/70	
80ft	75-100ft - 50% > 1/4" predom Qtz - white, grey sub rounded. 30% 1/8"-1/4" Qtz, f/spar, Black Min. 20% < 1/8" Same as above.						F/2/75	
	100-120ft 30% > 1/4" - predom. Qtz. 50% 1/8"-1/4" Qtz, f/spar, Black min. 20% < 1/8"						F/2/80	
90ft	Rare lim nods 1/4". < 1%						F/2/85	
							F/2/90	
100ft							F/2/95	
							F/2/100	
110ft							F/2/105	
							F/2/110	
120ft							F/2/115	
							F/2/120	
130ft	SILTY CLAY - predom. grey, fine gr, well sorted. Sand content <5%. Clay fine gr. Freq vent large pebbles 5% of Qtz (rnded) due to contam. from above gravel? Gradational change into sandy clay.		n.p.	n.p.	Altered to clay minerals?		F/2/125	
							F/2/130	
							F/2/135	
140ft	SANDY CLAY - predom grey, matrix fine gr. Poorly sorted. Sand content 30-35%. Matrix grey to brown clay Sand - coarse, very		n.p.	n.p	As sand const 20%	-	F/2/140	
	angular predom. Qtz 70-80% f/spar pink, white 20% + black min? 5%				pink orange white ang.		F/2/145	
150ft	Gradational change into Silty Coarse Sand				Possibly an altered const. in clay matrix		F/2/150	
							F/2/155	
160ft	SILTY COARSE SAND predom. grey to light brown. Very poorly sorted. Coarse sand content 60-70%.		n.p.	n.p	As major const in silt		F/2/160	
	Silty matrix - fine gr. predom Qtz 60-70% f/spar 30-40%.				30-40% Altered to some degree.		F/2/165	
170ft	Coarse sand, angular frags Qtz - 70-80% . clear. f/spar 20-30% pink, orange dark minerals? 5%				As sand const. ang. 20-30% pink orange		F/2/170	
							F/2/175	
180ft							F/2/180	
							F/2/185	
190ft							F/2/190	
							F/2/190	
200ft							F/2/200	
							F/2/205	
210ft	CARBONACEOUS SANDY SILT - grey brown to black. Colouration controlled by relative abundance of Carbonaceous material. Carbonaceous material			As interstitial component fine gr. 205-225ft Higher concentrations from 210-215ft 220-225ft. Difficult to determine %.			F/2/210	
	occurs as interstitial local fine gr. component in Sandy silt, and as concentrations of carb. material ~~of peaty chips at various depths~~ (see CARBON).						F/2/215	
220ft	Matrix with some Qtz fine gr. f/spar 20% (kaolin after f/spar?) (as yellow specks) greenish mineral 10% (altered mafic min?)						F/2/220	
	% of sand abundance ↓ ± depth.						F/2/225	
230ft.	End of Hole 225ft.							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F/3 | CONTRACTOR | STARTED 29/11/72
LOCATION | GAMMA LOGGED | COMPLETED 30/11/72
COORDS N E | GEOL. LOGGED P. GRIFFYTHS | SHEET OF
TOTAL DEPTH 285' | HOLE DIAMETER | SCALE
COLLAR ELEV. | PROBE DIAMETER

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY - Lateritic - predom orange - lim nods up to 20mm - 30%. in a silty clay matrix.		100% stain - 30% lim nods	n.p.	n.p.		F/3/5	
5'	COMPACT CLAY TO CLAYSTONE (AFTER BASALT?) 5'-10': predom light grey - 10'-15': " dark grey - more compact. - White specks of f'dpar - rare ⇒ faint igneous texture		↓ in stain - 20% is brick red to orange stain to		White specks ~2%		F/3/10	
10			Predom brick red 10-15'				F/3/15	
15'	FERRUGINOUS SILTY CLAY: Predom light grey. ± Compact Fe (brick red) silty lumps in matrix - orange to brick red Fe stain ↑ ± depth from 20% to 70%.		20% orange to brick red stain	n.p.	n.p.		F/3/20	
20'	from 30'-47' - rare speck of mica (vitreous lustre)		compact lumps ~5-10%	rare black specks.			F/3/25	
			↑ in compact lumps to 30%	25'			F/3/30	
30'			Predom orange stain - 20%	↑ in black specks ~2-3%	"	rare mica specks.	F/3/35	
			↑ in orange stain to ~30%				F/3/40	
40'	dark grey ± dominant orange stain. Grades into a		↑ in orange stain to 70%	"			F/3/45	
							F/3/50	
47'	SILTY Qtz SAND: Predom fine to very fine rnd to subrnd		rare orange stain ~3%	rare black specks	rare xtals			
50'	Qtz xtals (70%) + rare f'dpar (white) xtals + rare C. (black) specks in a white silty matrix (30%) Grades into a						F/3/55	
56'	PEBBLY GRAVEL: VERY Poorly sorted - ang to subang. Pebbles of Qtz (70%) + fdpar (10-20%) - 20% of Qtz orange (Fe) stain. - fdpar slightly Kaolinised		20% Qtz Pebbles orange	n.p.	30% pebbles.		F/3/60	
60'	- size ↑ from ave. 1-2mm (60'-65') to ave 3-4mm (65'-70') to max 15mm (70-73')						F/3/65	
							F/3/70	
70'							F/3/75	
73'	ARKOSIC SILTY SAND. 20% kaol after f'dpar in a grey green silty matrix (mafic) - Fe stain ↑ ± depth Qtz pebbles (contamination) black speck of C. in matrix - % ↑ ± depth.		no stain	black specks 2-3% ↑ ± depth to ~5%	20% kaol after f'dpar.		F/3/80	
80'			orange stain ~50%				F/3/85	
87'							F/3/90	BRAN. USED.
90'	CARBONACEOUS SILTY CLAY: Predom brown to dark brown as C. content ↑ ± depth - bands of dark brown very carbon. (90%) clay between lighter brown less carbon. clay. ~~↑ in C. ca~~		n.p.	"	n.p.		F/3/95	
			"	Soft dark brown Carbon. wood frag (small) ~10%	"		F/3/100	
100				↑ in wood frag. to 20%. abt. bands of dark brown Peat.	97'		F/3/105	
105	SILTY SAND: Predom rnd to subrnd fine (≤ ½mm) Qtz (40%) xtals in a grey silt matrix (60%) - rare f'dpar xtals - rare mica flakes - rare speck of C.		n.p.	rare black specks.	rare xtals.	rare mica.	F/3/110	
110				rare wood frag			F/3/115	
							F/3/120	
120				↑ in wood frag to ~5%			F/3/125 ~~125~~	
125	PEBBLY GRAVEL: Very Poorly sorted. Predom Qtz Pebbles. up to 15mm - 5% orange (Fe) stain - 5% Fdpar ave. size ~4mm.		5% orang	n.p.	5% ave ~4mm.		F/3/130	
130	SANDY SILT: - well sorted. Predom grey. - Qtz xtals ≤ ¼mm ~10-20% in a silt matrix - fdpar ≤ 5% - mica ~2-3% - C. rare.		n.p.	rare black specks.	≤ 5% xtals.		F/3/135	
							F/3/140	
140							F/3/145	
							F/3/150	
150							F/3/155	
	ARKOSIC SILTY SAND: As above (105'-125') ~5% fdpar in a grey green mafic matrix. grain size ↑ ± depth - sorting becomes poorer - green xtals fine to very fine become evident. - rare mica.		n. p.	np.	5% xtals.		F/3/160	
160			rare orange stain	↑ in peaty bands to ~5%	↑ in to 15%		F/3/165	
165	CARBONACEOUS SANDY SILT. Predom brown. - black C. speck in a brown silt matrix - white Fdpar speck ~2%		n.p	40% black specks.	White specks ~2%.	"	F/3/170	
170	- rare mica.						F/3/175	
							F/3/180	
180							F/3/185	
185	MEDIUM TO COARSE ARKOSIC SAND: Ang. to subang. qtz xtals (80%) + Fdpar (20%) - up to 2mm.		rare red stain	np.	20% xtals up to 1mm		F/3/190	
190	- rare red (Fe) stain						F/3/195	
							F/3/200	

F/3 (cont.)

						F/3/205
	CARBONACEOUS SILTY SAND. - poorly sorted grey green to brown. 205' 210' 1-2mm Qtz + fd Par x tals in grey green silty matrix		np	peaty bands ~20%	1-2m fdpar x tals	F/3/210
10	210 - 240 - ↓ in size to <1mm - bands of dark brown peat ↓ in C. content = depth. below 230'					F/3/215
						F/3/220
20				T to 40% - Wood frag (soft dark brown) 20% of total		F/3/225
				ND Wood ~20% peat	225'	F/3/230
0						F/3/235
						F/3/240
10	SILTY C SAND: Predom grey green as above 20% f'dpar? fine-v.fine + 5% peaty bands + ~3% mica flakes + green mafic mineral ± ina grey green silty matrix - coarsely textured		np	~5% C specks	20% f'par grains	F/3/245
						F/3/250
50	f'dpar' - kaolinised					F/3/255
						F/3/260
260						F/3/265
						F/3/270
270						F/3/275
						F/3/280
						F/3/285
285						

5 cm

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F4 | CONTRACTOR | STARTED 27/11/72
LOCATION 2 MLS N. OF CLEVELAND | GAMMA LOGGED | COMPLETED 28/11/72
COORDS N E | GEOL. LOGGED P. GRIFFITHS | SHEET OF
TOTAL DEPTH 330' | HOLE DIAMETER | SCALE
COLLAR ELEV. | PROBE DIAMETER

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY SAND: FINE to very fine and to subrnd qtz xtals (90%) in silty clay matrix - predom grey brown - orange stain ↑ = orange brown) ↑ depth.		5% orange stain	top 6" dark brown ←	n.p.		F/4/5	
10'			↑ in orange stain to 10%				F/4/10	
							F/4/15	
	SANDY SILT: - well sorted banded - grey to orange (stain), brown to dark brown. fine to very fine predom qtz [~10-20%] in silt matrix [80-90%]		Orange ↑ = depth	n.p.	n.p.		F/4/20	
20'	grain size ↓ = depth Fe stain ↑ = depth. to max. 20'-30' - rare black (C.) specks.		to ~90% orange.				F/4/25	
			"	rare black specks.			F/4/30	
30'							F/4/35	
				n.p.			F/4/40	
40	CLAY: - Predom light grey - homogeneous - rare orange (Fe) stain - - ↑ in depth → rare black C. specks.		2-5% stain orange.	rare specks			F/4/45	
							F/4/50	
50			rare orange stain	2-3% black specks.			F/4/55	
55'	CARBONACEOUS SILTY CLAY: Predom dark brown. C. content ↑ to max at 65' - abt. wood frags		n.p.	black specks ~20%	n.p.		F/4/60	
60	↓ dark brown, soft, Peaty. - frags up to 10mm² - some grey clay - contamination.		n.p	Woodchips ~40% 65' ↓ in wood frags to ~20%	n.p.		F/4/65	
70							F/4/70	
	CARBONACEOUS SANDY SILT: Predom. dark grey green. fine to very fine qtz xtals (~20%) in a grey green silty matrix.			3% wood frag.			F/4/75	
75'	CARBONACEOUS SILTY CLAY: Predom light grey. - C. content as wood. frags - small lumps of orange stain silty clay - contamination.			Woodfrag ~20%.			F/4/80	
80	PEBBLY GRAVEL: - very poorly sorted. ang to subang. qtz pebbles 15mm-2mm in a clay matrix.		n.p	n.p.	n.p.		F/4/85	
85'	CARBONACEOUS SILTY SAND: Predom grey green - ang to subang qtz (≤ ¼ mm) (40%) + rare f'dpar ~~xtals~~ xtals + black specks of C. ~~(brown)~~ - in a grey green mafic matrix (60%)		n.p.	5% black specks	rare f'dpar frag.		F/4/90	
90	- Qtz pebbles due to contamination - ↑ in C. content = depth to a max. at 125'-130' - abt. wood frags - soft, peaty black to dark brown.		"	"	"		F/4/95	
			"				F/4/100	
100							F/4/105	
			"	Woodfrag - 40% of C. dark brown to black 60% peat bands			F/4/110	
110				Wood - 20% of C.	"		F/4/115	
				Wood ~10%			F/4/120	
120			"		"		F/4/125	
125'	CARBONACEOUS ARKOSIC SILTY SAND: Kaol after f'dpar ↑ to ~10% - ang to subang ~~xtals~~ grains ≤ ¼mm - grey green mafic matrix ↑ to ~80%		np	band of brown Peaty material ~10%	10% Kaol after f'dpar		F/4/130	
130	Peaty brown bands in matrix - rare mica xtal. -		"	↑ in soft black to dark brown Peat ~30%	"	rare mica.	F/4/135	
140						"	F/4/140	
	- Sorting become poorer to give at 150' a.		"			"	F/4/145	
150						"	F/4/150	
	Very Poorly sorted carbonaceous Arkosic silty Sand where ang to subang frags of Qtz ≤ 5mm (20%) + fine f'dpar (20%) occur in a predom grey green silty mafic matrix - brown silt ~10% of matrix. Qtz pebbles ↑ in size = depth (~10% of Qtz) to 160'		"	Peat ~5% Woodfrag ~10%	~20% Kaol.	"	F/4/155	
160							F/4/160	
	At 160' ↑ in Kaol content predom ~~white Feld/Quartz silt/sand~~ light grey brown clay - 30% of matrix. ↓ in grain size = depth. to give a			Peat + Woodfrag. ~20%	↑ in Kaol to ~30%	"	F/4/165	
170				↓ in wood frag. C. content ~5%			F/4/170	
			rare orange stain	"	"	"	F/4/175	
180							F/4/180	
				↑ in black Peat to ~10% - no wood.		n.p.	F/4/185	
190							F/4/190	
	SANDY SILT: fine (≤ ¼ mm) xtals of Qtz + f'dpar (10%) rnd to subrnd in a predom ~~red~~ grey green to brown silt matrix. - peaty bands in matrix.		n.p				F/4/195	
200							F/4/200	

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200'							F/4/205
205'	**SANDY ARKOSIC SILT** White streaks of f'd pathic sandy silt in a predom brown silt matrix ↓ in f'd par. ↓ = depth to a predom brown sandy silt at 215'		np	fine black rods of C? ~5%	~8%		F/4/210
210'							F/4/215
215'	**CARBONACEOUS SANDY SILT** rnd to sub rnd, fine (≤ ¼ mm) predom qtz (~5%) in a brown silt matrix (80%) ↓ in silt matrix ↑ in C. content.		np	black to brown peat ~10% + rare wood frag.	np.		F/4/220
220'				?in % peat to 20-30%			F/4/225
225'			"				F/4/230
230'				peat ~30-40% + ~5% soft black to dark brown wood frag.			F/4/235
235'							F/4/240
240'	-some grey green sandy silt due to contamination			↑ in % wood frag to ~20%			F/4/245
245'				~20% peat <3% small wood frag.			F/4/250
250'							F/4/255
255'							F/4/260
260'				~10% peat - rare wood frag			F/4/265
265'				ebr wood frag ~25%			F/4/270
270	↑ in size + % of Qtz + f'par frag - up to 2mm + ~5% in brown silt matrix - poorly sorted. 270-275'			~10% peat.			F/4/275
275	275'-305' - ↓ in grainsize to ≤ ¼ mm.						F/4/280
280							F/4/285
285				peat rare - black specks < 5%			F/4/290
290							F/4/295
295							F/4/300
300							F/4/305
305	**WEATHERED DOLERITE** Light grey clay after dolerite	+ + +

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F/5
LOCATION
COORDS N E
TOTAL DEPTH 210 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink.
HOLE DIAMETER
PROBE DIAMETER

STARTED 28/11/72
COMPLETED 28/11/72
SHEET 1 OF 1
SCALE 10 ft = 1 inch

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SANDY SILT - brown, fine gr, coarse texture. poorly sorted, qtz frags (1/8") 2%, lim nods (1/8") 2% In sand - qtz principle const. 80%, some kaolin after f/spar.?		Ferrug st. giving brown colour. Lim. nods 1/8" - 2%.	n.p.	kaolin after f/spar 10-20% in sand.	-	F/5/0-5	Cuttings washed. Flushed.
10ft	WEATHERED BASALT - igneous texture, mottled appearance, brown to grey green. Some ferrug. patches at 10-15 ft level (5%).	V V V V	Ferrug st - 5% 10-15 ft	n.p.	-	-	F/5/10	
		V V V V					F/5/15	
20ft		V V V V					F/5/20	
	Actual boundary ≐ 27 ft.	V V					F/5/25	
	CLAY - even gr. 25-30 ft - dark grey to black 30-35 ft - grey to brown, mottled. Brown patches - ferrug. st.	— — — —	Patches of ferrug st. (10%)	25-30 ft as clay const. (fine gr) % ?	-		F/5/30	
30ft	Black colour - carbonaceous material? Predom Qtz + clay minerals? Actual boundary ≐ 37 ft.	— — — —					F/5/35	
	SANDY SILT - brown to light brown, coarse texture, poorly sorted, predom Qtz (80%) frags. up to 1/8" common 1-2%, some f/spar & rare mica flakes. Occas. ferrug. st. in matrix (40-45 ft) Coarser ≐ depth, f/spar % ↑ ≐ depth, 15% at 50 ft. Larger frags of Qtz + f/spar - angular to subrounded.		Ferrug. st. (40-45ft)	n.p	As const frags 10% to 15% ang to sub ang.	-	F/5/40	
40ft							F/5/45	
							F/5/50	
50ft							F/5/55	
	SILT - well sorted. grey, predom Qtz 80% f/spar 15-20%. Actual boundary into pebbly silt not distinct, gradational change.		n.p.	n.p	As const frags 15-10%	-	F/5/60	
60ft	PEBBLY SILT - very poorly sorted. Max size of frags 3/4" Predom Qtz, ang to sub ang, 90%. Gradational change in size of frags from pebbly. Average size of frags (1/8") some f/spar 5-10%.		n.p	n.p.	As const. frags 5-10%	-	F/5/65	
70ft							F/5/70	
	COARSE PEBBLY SILT - very poorly sorted. Max size of frags 1". Composition similar to pebbly silt 60-70 ft.		n.p.	n.p	As above		F/5/75	
	GRAVEL - reasonably well sorted. Predom. Qtz 80%, ang to sub ang. Range in size 1/8" - 1/4" Some larger pebbles 1/2".		n.p.	n.p	As const. frags		F/5/80	
80ft	F/spar 10-20% angular. Small percentage - fine gr. matrix - possibly contamination?				10-20% angular.		F/5/85	
	SILTY CLAY - reasonably well sorted. Predom. fine gr. clay 60-70% with silt 20-40%. Contaminated ≐ pebbles	— — — —	n.p.	85-90 ft n.p.			F/5/90	
90ft	from above. Fine gr. grey to light brown, carbonaceous at intervals along section. (see CARBON). Qtz predom., some kaolin after f/spar. Dark colouration possibly due to presence of ~~ma~~ malic const.			90-95 ft rare carb. specks < 1% 95-100 ft increase in specks - as integral const.	Some kaolin after f/spar.		F/5/95	
100ft				10-20% 100-105 ft as integral const. 50% & peaty chips 10%			F/5/100	
							F/5/105	
	SAND - rich in carbonaceous material. Poorly sorted, gr size ↓ ≐ depth. Predom Qtz 80%-90%, sub rounded F/spar 10%-20% to ang. Sand gr. size - coarse. ≐ matrix fine gr. (Qtz + f/spar) % of peaty chips ↓ ≐ depth. % of f/spar ↑ ≐ depth. to ≐ 20% at 130 ft		n.p.	105-110 ft large peaty chips 3/4" (50%)	As const. frags	-	F/5/110	
110ft				110-115 ft large peaty chips (20%) 115-120 ft large peaty chips (10%)	10-20% ↑ ≐ depth frags ang to sub ang		F/5/115	
							F/5/120	
120ft				120-130 ft (5%) small chips 1/8"			F/5/125	
							F/5/130	
130ft	SILTY SAND - coarse texture., grey green in colour. Predom Qtz 40-50%., f/spar (altered) 20%, green mineral 30% (possibly altered mafic minerals - dolerite?). Carbonaceous at various intervals (see CARBON) Relatively well sorted, frags sub ang		n.p.	130-135 ft < 2% 135-140 ft as peaty chips 2-5%	As const. (30%) altered?	-	F/5/135	
							F/5/140	
140ft	Frequent Qtz pebbles 1/4" due to contam.			140-145 ft < 1% (contam?)			F/5/145	
				145-150 ft < 1% (contam?)			F/5/150	
150ft	SANDY SILT - brown. Fine gr. Brown colour due to carbonaceous material. Carbon occurs as fine gr. integral const. Silty sand - predom Qtz + clay mins? Rare peaty chips - contamination? except from 165-170 ft (see CARBON).		n.p	As integral fine gr. const. other concentrations.			F/5/155	
							F/5/160	
160ft				As woody chips 165-170 ft (up to 30%)			F/5/165	
							F/5/170	
170ft							F/5/175	
							F/5/180	
180ft							F/5/185	
							F/5/190	
190ft	CLAY AFTER DOLERITE - no carbonaceous material	+ + + + + + + + + +					F/5/195	
							F/5/200	
200ft		+ + + + + + + + + +			~~F/5/205~~ ~~F/5/210~~		F/5/205	
	End of Hole 210 ft.						F/5/210.	
210ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F/6
LOCATION
COORDS N E
TOTAL DEPTH 132'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED P. GRIFFITHS
HOLE DIAMETER
PROBE DIAMETER

STARTED 28/11/72
COMPLETED
SHEET OF
SCALE 10'=1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY SAND: fine to very fine (≤ 1/4 mm) xtals of qtz (20-25%) + f'par (5-10%) in a silty clay brown matrix ~ ~10% orange (Fe) stain - lim nod (2-5%)		~10% orange stain matrix	n.p.	5-10' fine to very fine xtals.		F/6/5	
10'	5'-10' - nod. of compacted dark brown siltstone (after lim?) - some large pebbles of basalt.		"	"			F/6/10	
	10'-20': sorting improves → finer silty sand - rare dark brown siltstone (after lim?) - 2-3% mica specks ~~orange stain abt.~~		abt. orange stain ~90%	"	"		F/6/15	
20'			rare orange stain	black specks ~3%			F/6/20	
	SILTY CLAY: predom cream 1-3% mica specks.		"	"	≤ in matrix		F/6/25	
	FINE QTZ. SAND: rnd to sub rnd xtals ≤ 1/4 mm. - predom white - well sorted.		n.p.	2-5% black specks	n.p.		F/6/30	
30'	30-35: light brown Fe stain in qtz xtals.		Fe qtz xtals stained orange to brown				F/6/35	
	SILTY CLAY: Light grey to light brown silty clay - ang to subang qtz frags (up to 10mm)		rare lim nod orange to light brown matrix.	2-5% black specks	n.p.		F/6/40	
40'	rare mica specks.							
45'			"				F/6/45	
	SILTY SAND: fine (≤ 1/4 mm) ang to sub ang qtz (40%) + fd par (5%) + black c. specks (2-5%) in an orange brown silty matrix (50%)		orange brown matrix	2-5% black speck	5% xtals.		F/6/50	rare qtz pebble.
50'	PEBBLY SAND poorly sorted. predom qtz (white to black - ang to subang up to 4-15mm) some orange stain in an orange silt matrix.		orange matrix.	n.p.	5% pebbles		F/6/55	
55	SILTY CLAY: predom orange brown silty clay - contains few qtz pebbles.		orange brown matrix	~5% black specks	≤ in matrix.		F/6/60	
60'	dark brown:		specks of orange silty clay				F/6/65	
70'				soft small wood frag ~2-5% + black specks			F/6/70	
	CARBONACEOUS SILTY CLAY: light brown to dark brown - soft dark brown carbonaceous wood frag + peaty bands.		n.p.	wood ~40% - peaty bands ~	n.p.		F/6/75	
80'							F/6/80	
83'							F/6/85	
	COARSE QTZ SAND: Ang to subang xtals of predom qtz (50% + 1mm) - (5-10%) ang. fd par? white - poorly sorted.		"	↓ in wood frag to 10% no peat bands	5-10% xtals.		F/6/90	
87'								
90'	SANDY SILT: Better sorting ↑ ≥ depth to 120' - grain size ↓ to fine to very fine (1/16 - 1/4 mm) ≥ depth. - % kaol. after f'd par ↑ ≥ depth. to an ave 10% - max at 95'-100' - 20%.			5% as soft wood dark brown	~15%		F/6/95	
	- % grey green mafic matrix ↑ to ~60%			no wood. - rare peaty bands	~20% - as streaks of white silty clay		F/6/100	
100'	- rare specks of mica.			rare wood frag + peaty bands	~5-10%		F/6/105	
			some orange silty clay - contamination	"	"		F/6/110	
110'					"		F/6/115	
120'				30% as wood frag + peaty bands.			F/6/120	
	CLAY AFTER DOLERITE:						F/6/125	
130'							F/6/130	
132'							F/6/132	
	END							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. F/7
LOCATION
COORDS N E
TOTAL DEPTH 210 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 29/11/72
COMPLETED 29/11/72
SHEET 1 OF 1
SCALE 10 ft = 1 inch.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	SILTY CLAY 0-5 ft - predom brown - surface activity 5-10 ft - predom grey (mottled) Const. frags include Qtz + clay matrix. Rare lim nodes (1%) ↓ ε depth (¼"). Brown colour as surface - possibly due to ferrug staining.		0-5ft as ferrug stain?	n.p.	?	-	F/7/0-5 F/7/10	Cuttings water flushed.
10 ft	SANDY SILT - grey to brown in colour, well sorted, even texture. Const. frags include Qtz 50%, subrounded, fine gr., sand + fine gr. matrix ε Qtz and possible f/spar? Gr. size ↑ ε depth. - at 20ft - fine sand.		Some ferrug. st. 10-20%	n.p.	As const frags? (minor).	-	F/7/15 F/7/20	
20 ft	FINE SAND - orange brown to grey brown in colour. fine gr, well sorted, even texture. Predom. Qtz (80%) subrounded and f/spar (15%) angular. Orange colour due to ferrug. st. ?		Some ferrug st. giving orange colour?	n.p.	As const frags in fine sand (grng frags) 15-20%.	-	F/7/25 F/7/30 F/7/35	
30ft								
40 ft	SILTY CLAY - predom grey. Some mottled brown patches. Const. frags include Qtz + clay matrix. Gr. size ↑ with depth. Even homogenous texture, well sorted		As rare ferrug st patches <5% (contam)	n.p.	?	-	F/7/40 F/7/45	
50ft	PEBBLY SAND - Poorly sorted. Av. size of pebbles (20%) approx. 1/8". Some large (1%) 1/4". Predom qtz sand. ε some f/spar. <10%., orange.		n.p.	n.p.	As const frags <10%	-	F/7/50	
	PEBBLY SILT - Predom. light brown, grading to dark grey. Poorly sorted ε large pebbles (Qtz) - possibly due to contamination. Silt predom Qtz ε some f/spar.		¼ ferrug st giving brown colour?	n p	As const silt frags.	-	F/7/55	
60ft	SILTY CARBONACEOUS CLAY - fine gr., even texture., well sorted. dark grey to dark brown in colour., variably carbonaceous. - in layered concentrations? (see CARBON). Const. frags of clay - Qtz evident. Rare Qtz pebbles <1% (½") possibly due to contamination. Carbonaceous material present as integral fine gr. const. in clay and as peaty chips (½") at certain levels.		n.p	55-85 ft as integral const in clay fine gr. ↑ ε depth → black colouration.	?	-	F/7/60 F/7/65 F/7/70	
70ft				70-75ft as conc. zones 3% fine gr. 75-85 ft As peaty chips			F/7/75 F/7/80	
80ft				½" brown to black (60%)			F/7/85	
90ft	COARSE SAND. grey in colour., carbonaceous (possibly due to contamination). Well sorted, even texture. Predom Qtz 80-90%,		n.p	As small peaty chips. (5%)	As const frags 5-10% angular.	-	F/7/90 F/7/95	
100ft	subrounded to angular., f/spar 5-10% angular and carbonaceous material 5%. Gr. size ↓ ε depth. Particles become more angular and less sorted ε depth. Also in sand - rare (1%) green-grey mafic minerals. (angular).		1				F/7/100	
	SANDY SILT - greenish grey in colour., poorly sorted. Slightly carbonaceous 5% Const. frags predom Qtz 80% f/spar 5%, mafic mins? 5% + fine matrix?		n.p.	As const frags <5%	As const frags <5%		F/7/105	
110 ft	FINE SAND - colour same as above. const. frags same as above. but. well sorted		n p	As const. frags <5%	As const. frags <5%		F/7/110	
	SANDY SILT greenish grey in colour. poorly sorted - Same as 100-105 ft.		n.p.	Same as 100-105ft	Same as 100-105ft		F/7/115 F/7/120	
120ft	FINE SAND - greenish grey in colour., well sorted. Description same as 105-110ft except has higher % of carbonaceous frags (5-10%)		n p	As const frags 5-10%	Same as 105-110ft.		F/7/125	
	SILTY SAND - coarse texture, grey green in colour. Predom Qtz 40% - f/spar. 30% + green mineral 30% (altered mafic mineral?) Carbonaceous at various depths.			As peaty chips and integral fine gr const.	As const frags 30% possibly altered.		F/7/130 F/7/135 F/7/140	
130ft	Carbonaceous material: - ① as frags of peaty wood - chips ② as const. in silt - fine gr. - gives brown colouration.							
140ft							F/7/145 F/7/150	
150ft	CARBONACEOUS SANDY SILT - brown grey in colour. fine gr., brown colour due to interstitial carbon. Silt and sand predom Qtz + some f/spar and fine clay matrix. Common large peaty chips (possibly due to contamination?)		n.p.	As interstitial frags fine gr. As peaty chips ¼" 5%. (possible contam from above).	As component of silt?		F/7/155 F/7/160	
160ft							F/7/165 F/7/170	
170ft							F/7/175 F/7/180	
180ft							F/7/185 F/7/190	
190ft							F/7/195	
200ft	SANDSTONE - relatively consolidated. Pale green in colour. Predominantly Qtz, subrounded, fine gr, hard., possibly TRIASSIC?						F/7/200 F/7/205	
210ft	End of Hole 210 ft.						F/7/210.	

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO H/1ii
LOCATION 3 mls. N.W. EPPING FOREST.
COORDS N E
TOTAL DEPTH 370'
COLLAR ELEV. 579' A.S.L.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED W. WORREL
GEOL. LOGGED T.W. MIDDLETON & P. GRIFFITHS
HOLE DIAMETER 4½"
PROBE DIAMETER

STARTED 17/12/72
COMPLETED 17/12/72
SHEET 1 OF 2
SCALE 10'≡1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
~7'	IRONSTONE GRAVEL -beneath 6" of sandy loams predom sub round ferrug. pebbles to ¼" (50%) + sub.rnd to ang qtz to ½" 20% + some sandy clay.		~50% FeO Pebbles.	n.p.	n.p.		H/1ii/5	0-180' as for H/1i H/1i was drilled on 30/11/72 finished 30/11/72 at 180'
10	SILTY SAND: -light yellow grey -predom. subround to angular fine qtz sand -some f/Spar -white 50% + light grey silty matrix 25%.		streaks red brown FeO. Stain	n.p.	possibly 5-10% ang. white fresh f/Spar.		H/1ii/10 H/1ii/15 H/1ii/20	H/1ii is ~10 yds ~~East~~ South of H/1i
20	some ferrug. & qtz pebbles -20-25' - probably caveins.						H/1ii/25	
30	COARSE ~~ARKOSIC~~ SAND: light grey 25-30', yellow 30-35' clear subang to ang. qtz ~90% + white f/Spar laths & grains 5-10% - some dark grey lithic rnd-small pebbles to ⅛"		<5% lim stn grains common lim. stain	n.p.	5-10% highly decomposed frag's.		H/1ii/30 H/1ii/35	
40	SILTY, SANDY CLAY: light yellow brown. some coarse sandy sections = small ferrug pebbles.		occ. yellow stain	n.p.		minor white mica.	H/1ii/40	
50	SANDY, CLAYEY SILT: -grey = grey brown organic rich sections 40-45. Then decrease in abundence		rare lim. stain	Brown carb. stain + small blk frags minor organic stain	5-10% white kaol. f/Spar	minor mica	H/1ii/45 H/1ii/50	
~57'			..	..	..	..	H/1ii/55	
60	COARSE ARKOSIC? SAND. - to imm., grey, clean, -little matrix mainly colourless qtz, subangular to subround ~(90%) -€ 5-10% milky white qtz (or f/Spar) - possibly both -few grey black lithic frag's.		n.p.	n.p.	possibly 5% white fresh or milky qtz.	n.p.	H/1ii/60 H/1ii/65	
70							H/1ii/70	
~72	CARBONACEOUS SANDY SILT. = clayey Bands -dark brownish grey homogeneous texture, fine sand-silt grade material - few grey clay bands - some obvious qtz		n.p.	possibly 5% organic matter	Some small white kaol.	minor mica flakes	H/1ii/75 H/1ii/80	
80				thru'out as small brown to black wood frag's & finely divided organic matter	f/Spar grains		H/1ii/85	
90			..		..	..	H/1ii/90	
100							H/1ii/95 H/1ii/100	
110			..	50% as brown-blk wood to 1".	..	..	H/1ii/105 H/1ii/110	
120				as for 72 -105'			H/1ii/115 H/1ii/120	
130							H/1ii/125 H/1ii/130	
140							H/1ii/135 H/1ii/140	
150							H/1ii/145 H/1ii/150	
160							H/1ii/155 H/1ii/160	
170							H/1ii/165 H/1ii/170	
180							H/1ii/175 H/1ii/180	
190							H/1ii/185 H/1ii/190	
200							H/1ii/195 H/1ii/200	

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H/ii cont.

gradation boundary

200 Clay content ↑ in sandy silt increases ↓ depth.

→ CARB SANDY CLAYEY SILT ↑ some grey clay lenses.

210

-very fine gtz decrease in abundance ↓ depth.

220

230

240

250

260 grades into a

CARB. SILTY CLAY:

moderately compacted (plastic)

270 -homogeneous -dark brown ↑ carbon as an interstitial comp. of silty clay - some mica flakes.

- silt content is ~ 30-50%

280

290

300

310

320

330

CLAY AFTER DOLERITE.

- greenish blue - faint igneous texture to clay.

340

350

350-355. hard, relatively fresh Band

355-368 CLAY AFTER DOLERITE.

360

368-370. Fresh, hard DOLERITE.

370

END OF HOLE 370'

H/ii/205				
H/ii/210				
H/ii/215				
H/ii/220				
H/ii/225				
H/ii/230				
H/ii/235				
H/ii/240				
H/ii/245				
H/ii/250				
H/ii/255				
H/ii/260				
H/ii/265				
H/ii/270				not bagged from 270-370 as no bags available at that time
	np.	c. as interstitial component of silty clay	np.	
	np	np.	as Kaolin white in a greenish blue background.	

5 cm

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/2
LOCATION
COORDS N E
TOTAL DEPTH 240 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 1/12/1972
COMPLETED 1/12/1972
SHEET OF
SCALE 10 ft = 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10ft	PEBBLY SILTY SAND - Predom. brown. Poorly sorted. Pebbles > 1/16" 20-30%. Silty sand matrix 70%. Pebbles - predom Qtz, rnded to subrnded., Rare f/spar pebbles. Matrix even gr, predom Qtz, rare f/spar. Brown colour due to ferrug. st. of matrix. Rare lim nodo 1-2%.		As ferrug st. in silty matrix + Rare lim nodo 1-2%.	n.p.	As minor const. frags in pebbles and sand.	# -	H/2/0-5 H/2/10	Cuttings water flushed.
20ft	SILTY COARSE SAND - Predom grey to colourless. ē frequent 10% large pebbles (1/2") of Qtz and limonite. Poorly sorted. Sand predom. Qt 70-80%, ang. ē f/spar (pink to yellow) 20-30% and rare frags. of dark mineral 1-2%? Large pebbles subrnded - possibly due to contamination. Silty matrix predom. Qtz + f/spar (slightly altered) ARKOSIC?		As large 1/2" lim. nodo (2%)	n.p.	As const. frags orange pink yellow in coarse sand + silty matrix (slightly altered) 20-30%.	-	H/2/15 H/2/20 H/2/25	
30ft	COARSE SAND - Predom. grey to brown due to ferrug. st. Rare large Qtz pebbles. Sand predom Qtz 70-80% ang. and f/spar (orange) 20-30% Brown colour due to ferrug st.		As ferrug st.	n.p.	As const. frags 20%	-	H/2/30	
40ft	SILTY COARSE SAND Predom. grey to colourless. Composition similar to silty coarse sand. 10-25 ft suggesting gradational variation. Sand predom. Qtz 70-80%, f/spar 20-30%. Rare dark min. ARKOSIC?		n.p.	n.p.	As const frags 20%.	-	H/2/35 H/2/40 H/2/45	
50ft	COARSE SAND predom. grey to colourless, NO silty matrix - possibly washed through sieve. Composition same as sand 25-30 ft except no ferruginous staining.		n.p.	n.p.	As const frags 20%	-	H/2/50	
60ft	SILTY CLAY - 50-55 ft - predom. yellow brown 55-60 ft - predom. grey fine gr, well sorted, even texture. Predom. Qtz + f/spar + clay matrix. Some ferrug st. 50-55 ft.		ferrug st. 50-55 ft.	n.p.	As const frags & altered derivative clay?	-	H/2/55 H/2/60	
70ft	CARBONACEOUS SANDY SILT ē CLAY BANDS Predom. grey to dark brown according to carbon content. Frequent clay bands - brown - carbonaceous. Sandy silt - predom Qtz Carbon present as fine gr. interstitial frags in silty sand and as concentrated layers of peaty chips vary w ē depth (see CARBON). Gr size ↓ ē depth 100-240 ft predom carbonaceous silty clay.		n.p.	As interstitial component 5%-10% 60-240 ft (difficult to determine) %			H/2/65 H/2/70 H/2/75 H/2/80	
90ft				85-90 ft Concentration of peaty chips 1/4" 30% of cuttings.			H/2/85 H/2/90	
100ft		↓					H/2/95 H/2/100	
110ft							H/2/105 H/2/110	
120ft							H/2/115 H/2/120	
130ft							H/2/125 H/2/130	
140ft							H/2/135 H/2/140	
150ft							H/2/145 H/2/150	
160ft							H/2/155 H/2/160	
170ft							H/2/165 H/2/170	
180ft							H/2/175 H/2/180	
190ft							H/2/185 H/2/190	
200ft							H/2/195 H/2/200	
210ft							H/2/205 H/2/210	
220ft							H/2/215 H/2/220	
230ft							H/2/225 H/2/230	
240ft	End of Hole 240 ft.						H/2/235 H/2/240	
250ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/3
LOCATION
COORDS N E
TOTAL DEPTH 120 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 1/12/1972
COMPLETED 1/12/1972
SHEET 1 OF 1
SCALE 10 ft = 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
	PEBBLY SILTY SAND brown. Poorly sorted. uneven textum. Predom. sand. → Qtz + Flspar and silty matrix Pebbles 10%- Qtz 1/4" lim nodo 1/4", rare Flspar.		As ferrug st in silty matrix	n.p.	As sand and silt component + rare Flspar pebbles.	-	H/3/0-5 ~~H/3/ra~~	Cuttings H_2O flushed
10ft	IRONSTONE GRAVEL - brown to colourless, poorly sorted 7/4"-10-20%; 1/8-1/4"-50%; < 1/8"-30%. Compst. include. Qtz predom. ang to sub rnded 60-70% Flspar ang 15-20%, Lim. (ironstone) nodo 15%.		As frequent lim nodo 15%	n.p.	As const frags 15-20%	-	H/3/10	
20ft	SANDY SILT - mottled grey and red brown. Well sorted although contaminated from above by pebbles. Sandy silt- fine gr, predom Qtz, mino Flspar slightly altered. Red coloration- ferrug st 30-40% of cuttings.		As red brown ferrug st in silty matrix 30-40% of cuttings.	n.p.	As minor sand silt const. slightly alt.	-	H/3/15 H/3/20	
	CORRSE SAND - predom. brown to colourless Const. frags Qtz 70-80% ang. Flspar - pink white 20% (prominent) rare dark min? 1-2% + rare lim nodo 1/8"		As rare lim nodo 1/8"	n.p	As const 20% pink white	-	H/3/25	
30ft	SILTY CORRSE SAND - predom. sand 60% in silty matrix 40% Const. frags of coarse sand same as coarse sand 20-25 ft		n.p.	n.p	As sand const as above 20-25ft.	-	H/3/30	
40ft	Silty matrix with obvious qtz.						H/3/35 H/3/40 H/3/45	
50ft	COARSE SAND 45-50 ft - pink grey 50-60 ft - brown. Poorly sorted. Predom. Qtz - 60%-70% colourless angular., flspar pink, orange, 20-30%		50-60 ft as ferrug st	n.p	As const frags pink white prominent 20-30% (ang.)	-	H/3/50	
60ft	angular. + rare dark mineral 1%. ~~Accessories~~. Composition suggests it is ARKOSIC. The pink colour is due to abundant pink flspar. From 58-60 ft - frequent 5-10% lim. nods, Silt becomes more abundant ± depth - gradational change?		58-60 ft as frequent lim nodo 2-3%.				H/3/55 H/3/60	
	SILTY SAND - predom grey to greenish grey - homogenous text. Predom Qtz ± minor flspar.		n.p.	n.p.	As minor sand + silt const.	-	H/3/65	
70ft	CARBONACEOUS SANDY SILT - predom dark grey to brown according to carbon content. Gr size ↓ ± depth. Matrix with obvious qtz and yellow specks (kaolin after flspar?) Carbonaceous material occurs as fine gr interstitial comp. and as concentrations of peaty chips variable ± depth (see CARBON).			As interstitial fine gr component 65-120ft			H/3/70 H/3/75 H/3/80	
90ft				85-90ft woody chips 5% of cuttings.			H/3/85 H/3/90	
100ft							H/3/95 H/3/100	
110ft							H/3/105 H/3/110	
120ft	End of Hole 120 ft.			110-115ft woody chips 10% of cuttings			H/3/115 H/3/120	
130ft								

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/4
LOCATION 2mls NNW Epping Forest.
COORDS N E
TOTAL DEPTH 45 ft.
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 6/12/1972
COMPLETED 6/12/1972
SHEET 1 OF 1
SCALE 10 ft = 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10 ft	SANDY SILT 0-5 ft - mottled brick red, brown, grey 15-10 ft - mottled brick red and grey. Gr size ↑ c̄ depth. Silt - fine gr, some obvious qtz, + white specks - kaolin after f/spar. Sand predom Qtz (ang) c̄ some f/spar (minor). Red colour due due to ferrug st. Frequent lim nods. (1/4 - 1/2") 1-2% from 0.5 ft, ↓ c̄ depth; 5-10 ft frequent pebbles 1/8-1/4" Qtz + some f/spar Pebbles 1-2%.		As st. agent up to 50% from 0-5 ft ↓ c̄ depth as rnded lim nods 1/4-1/2" 1-2%, 0-5 ft ↓ c̄ depth	n.p.	As minor const of sand white to yellow Alt to kaolin? in silt (white specks)	-	H/4/0-5 H/4/10	Cuttings water flushed.
	PEBBLY SILTY SAND predom. grey siltysand 60% pebbles 40% Siltysand - grey - predom Qtz, minor f/spar. Pebbles - 1/8"-1/4" - qtz colourless white, grey c̄ some ferrug. st pebbles. Poorly sorted.		As stain in pebbles → brown colour	n.p.	As minor const frags, pink to brown.	-	H/4/15	
20 ft	GRAVEL - brown due to ferrug. st. Poorly sorted >1/4"-30%; 1/8-1/4"-40%; <1/8"-30%. Const. frags include Qtz - colourless to brown - 50-60% rnded. f/spar - pink to brown 20-30%, sub ang, Minor Qtzite 10%. Ferrug pebbles 10-20%. Rare large pebbles		As ferrug pebbles 10-20% + ferrug st. of frags.	n.p	As const. frags 20-30% sub ang. often ferrug st brown.	-	H/4/20	
	SANDY SILT mottled grey and brown. Predom. silt - fine gr; sand - minor. c̄ obvious qtz, minor f/spar. Frequent pebbles of qtz, f/spar, qtzite + ferrug aggregates due to contamination.		As rare ferrug. aggregations	n.p.	As minor const of sand.	-	H/4/25	
30 ft	COARSE SAND - orangy brown due to ferrug st. of const. frags. Rare large pebbles of Qtz and Qtzite? Sand predom. Qtz rnded to sub rnded - brown 60-80%, f/spar minor 20%. brown due to ferrug st. Rare qtzite frags and dark min?		As very prominent stain → orange colour	n.p	As minor const 20% stained orange.		H/4/30	Bran added due to excessive H_2O loss
40 ft	GRAVEL - brown due to ferrug. st. of const. frags. Const. frags include major Qtz (rnded to ang), colourless to brown. F/spar orange, pink and white 20-30%, sub ang; pebbles of ferrug. aggregates of coarse material? common 10%. ⇒ compact brown. Also minor Qtzite, + dark min (rocks). Cutting also include rare silty clay frags. compact.		As staining agent of minor silty matrix and const pebbles.	n.p			H/4/35 H/4/40	
	BOULDER GRAVEL - grey to brown. Cuttings include frags. of dark grey qtzite? hard, compact. Qtz pebbles, little f/spar + collection of other components - chalcedony green brown red. Minor siltysand matrix		As from 30-40 ft	n.p	Minor const. frags.		H/4/45	Hole was terminated due to consistent cavings - in in hole. Apparently at this depth there were large boulders?
50 ft	End of Hole 45 ft.							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/4ii
LOCATION
COORDS N E
TOTAL DEPTH
COLLAR ELEV.

CONTRACTOR Austral United Geophysical
GAMMA LOGGED
GEOL. LOGGED R.J. Willink
HOLE DIAMETER
PROBE DIAMETER

STARTED 6/12/1972
COMPLETED 7/12/1972
SHEET OF
SCALE 10 ft. 1 in.

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10 ft	SANDY SILT 0-5 ft - mottled brick red, brown + grey 5-10 ft - mottled brown and grey. Gr. size ↑ with depth. Silt - fine gr, homogeneous texture, some obvious Qtz + white specks kaolin after f/spar. Sand fine gr, qtz + minor f/spar. Red coloration (0-5 ft) due to ferrug. st. in silty matrix. Frequent lim nods 0-5 ft, ↓ with depth (1%). 5-10 ft - brown patches - ferruginised sandy matrix (coarser gr size than surrounding medium). Rare Qtz pebbles < 1%.		As stain brick red 0-5 ft up to 50% of cuttings. As lim. nods 0-5 ft ↓ with depth 1%.	n.p.	As minor const. of sand (kaolin after f/spar? & 2% white specks.	-	H/4ii/0-5 H/4ii/10	Cuttings washed.
20 ft	GRAVEL IN SILTY SAND MATRIX - % of major constituents varies as follows:- Very poorly sorted. 10-25 ft - predom. grey - pebbly gravel 40-50%, sandy silt 50-60%. 25-40 ft predom. brown pebbly gravel 30-40%, sandy silt 60-70%. 40-45 ft predom. grey - pebbly gravel 40-50%, Sandy silt 50-60%.		As ferrug st. 30-40 ft brown colour. As rare lim nods.	n.p.	As const. of gravel and sand 20% colourless white pink orange.		H/4ii/15 H/4ii/20	
30 ft	Gravel const → include Qtz (colourless, white to grey) 30-40%, up to 1" diam., coarser ↓ depth; Qtzite (silicified rock?) (variable in colour green, grey, black) 20-30%, abundant from 40-45 ft, rnded, up to 1" diam.; Chalcedony (agate) < 5%, rnded. F/spar - (colourless, white, pink, orange) up to 1/4" 20-30%. Numerous other minor constituents including black minerals (rocks?) 1%, rock ↓ igneous texture 1% possibly dolomite?, rare mica flakes and rare lim nods rnded 1/4".		< 1% rnded 1/4".		As minor const. of silty matrix		H/4ii/25 H/4ii/30	
40 ft	Gravel increases in coarseness ↓ depth very poorly sorted. Sandy silt - predom Qtz, minor f/spar 30-40 ft - brown colour due to ferrug st of sandy silt matrix. Often forms more consolidated pebble like compact patches.						H/4ii/35 H/4ii/40 H/4ii/45	
50 ft	SILTY SAND - greenish grey - carbonaceous; variable ↓ depth. Silty sand - homogeneous texture; carbonaceous concentrations frequent		n.p.	As interstitial fine gr component	White to yellow specks kaolin after f/spar? - minor const in silty matrix	-	H/4ii/50	
60 ft	Carbonaceous material occurs as fine gr. interstitial component in silty sand matrix (black speck) and as peaty chip concentrations (see CARBON). Silty sand - some qtz (clear) evident; dull yellow specks - kaolin after f/spar?, green mineral (possibly altered mafic minerals) Gr size ↓ ↓ depth.			for entire depth. Peaty concentrations from 75-80 ft 90-95 ft and 100-110 ft up to 5% cuttings.			H/4ii/55 H/4ii/60 H/4ii/65 H/4ii/70	
70 ft							H/4ii/75 H/4ii/80	
80 ft							H/4ii/85	
90 ft							H/4ii/90	
100 ft							H/4ii/95 H/4ii/100	
110 ft							H/4ii/105 H/4ii/110	
120 ft	CARBONACEOUS SANDY SILT WITH LENSES OF NON CARBONACEOUS SILTY SAND AND CONCENTRATIONS OF CARBONACEOUS MATERIAL. Predom. brown to grey brown. Const. frags - yellow white specks kaolin after f/spar 1%. some obvious qtz. in fine gr. matrix. Carbon occurs as rare chips (peaty) and fine gr. interstitial component as from 45-110 ft. Rare Qtz pebbles from 140-145 ft, 1/8", angular.		→ As interstitial fine gr component for entire depth. (5-10% of matrix) → Peaty concentrations from 120-130 ft.		→ Kaolin after f/spar → 2% of silt matrix →		H/4ii/115 H/4ii/120 H/4ii/125 H/4ii/130 H/4ii/135 H/4ii/140	
150 ft							H/4ii/145 H/4ii/150	
160 ft							H/4ii/155 H/4ii/160	
170 ft	165-170 ft - coarse text., frequent 5% small pebbles 1/16" of Qtz colourless to brown, rare f/spar. Also some ferrug pebbles. Most likely due to contamination (see COMMENTS)		Rare. Ferrug pebbles (contam?)				H/4ii/165 H/4ii/170	Stopped drilling at 165 ft 6/12/1972 Recommenced drilling 7/12/1972
180 ft							H/4ii/175 H/4ii/180	
190 ft							H/4ii/185 H/4ii/190	
200 ft.							H/4ii/195 H/4ii/200	

210 ft

220 ft

230 ft

240 ft

250 ft

260 ft

270 ft

270-295 ft - Frequent orange brown patches of clay material & ferruginous cement upto 2% of cuttings from 275-280 ft Patches are more consolidated than surrounding silty clay matrix ⇒ rough texture
Also frequent pebbles (coarse sand size to 1/8") of rounded qtz

As orange stain in clay ⇒ more consolidated 2% of cuttings

280 ft

290 ft

300 ft

310 ft

320 ft

330 ft

335-345 ft Frequent (2-5% of cuttings) patches of fine gr clay material similar as those from 270-295 ft. Orange colour due to ferrug staining.

As from 270-295 ft

340 ft

Also poorly sorted cuttings with pebbles of qtz (ang to rnded) 1-2% upto 1/8", variable in colour - colourless, brown to red
% of pebbles ↑ & depth., pebbles commonly present until 370 ft 1-2%

350 ft

360 ft

370 ft

ALTERED DOLERITE - grey green in colour, more compact, consolidated igneous texture Becoming more compact with depth.

380 ft

End of Hole 385 ft

390 ft

400 ft

H/411/205
H/411/210
H/411/215
H/411/220
H/411/225
H/411/230
H/411/235
H/411/240
H/411/245
H/411/250
H/411/255
H/411/260
H/411/265
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H/411/315
H/411/320
H/411/325
H/411/330
H/411/335
H/411/340
H/411/345
H/411/350
H/411/355
H/411/360
H/411/365
H/411/370
H/411/375
H/411/380
H/411/385

5 cm

GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/5
LOCATION
COORDS ' N E
TOTAL DEPTH 265'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED P. GRIFFITHS.
HOLE DIAMETER
PROBE DIAMETER

STARTED 7/12/72
COMPLETED 8/12/72
SHEET 1 OF 2
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
0'	**PEBBLY GRAVEL:** Very poorly sorted subangular subrnd, predom qtz-qtzite pebbles, & dolerite + K-spar pebbles size range 2.5mm-silt. 0'-5' 90-95% qtz-qtzite (white colourless, orange stain) 10% - 20% dolerite ~2% K-spar trace black specks (cc!)		20% grn orange stain 95-100% orange stain	rare black specks	~2% pebbles >5mm!	H/5/5 H/5/10		
10'	5'-20': ~90% qtz-qtzite 5-10% dolerite - subrnd ~2% K-spar trace black specks, mica flakes.		"	"		H/5/15 H/5/20		
20'	20'-33' Lin grain sne - silt to gran - Fe stained 1 in 7 dolerite pebbles to ~5% ~50% qtz, qtz-lite (w/kin to orange stain) - rare amethyst.		~20% grn orange stain	n.p	"	H/5/25 H/5/30		all fine grains & small lost through coarse mesh.
30'						H/5/35		
40'	**CARBONACEOUS SILTY SAND:** rnd to subrnd, fine to very fine predom qtz (stone) + green mafic mineral (10-20%) + K-spar! (5%) + carbonaceous matter (wood frags, peaty bands) 2 main grey green to brown silty materials - peaty bands dark brown.		n.p.	10-20% brown peaty bands + rare wood frags " + rare wood frags 10-20% peaty bands + rare wood frags	~5% !	H/5/40 H/5/45 H/5/50		
50'						H/5/55		
60'						H/5/60 H/5/65		
70'				10-20% peaty bands + rare wood.		H/5/70 H/5/75		
80'						H/5/80		
90'				20-30% peaty bands + 5-8% wood frags		H/5/85 H/5/90		
100'				20-30% peaty bands + 5-8% wood frags		H/5/95 H/5/100		
110'				40-50% peaty bands + abund wood frags 30-40% peaty bands + rare wood 10-20% peaty bands + rare wood frags.		H/5/105 H/5/110		
120'						H/5/115 H/5/120		
130'						H/5/125 H/5/130		
140'				5-10% peaty bands + rare wood frags.		H/5/135 H/5/140		
150'						H/5/145 H/5/150		
160'						H/5/155 H/5/160		
170'						H/5/165 H/5/170		
180'	170'-180' - almost entirely a band of wood frag - black to dark brown - soft, peaty.			~90% wood frag 100% wood frags.		H/5/175 H/5/180		
190'	**CARBONACEOUS SANDY SILT** " SILTY SAND grades into a brown dark sandy silt - fine to very fine qtz + K-spar ? + ~10% + black specks - ~2% + dolerite + grn frags up ~1mm (2-5%) in a brown silt matrix dolerite + grn frags - contamination.		n.p.	10% black specks + rare wood frag + C in matrix "		H/5/185 H/5/190 H/5/195 H/5/200		
200'	H/5		n.p.	10% black specks + rare wood frag + C in matrix		H/5/205 H/5/210		
210'						H/5/215		
220'						H/5/220 H/5/225		
230'						H/5/230 H/5/235		
240'						H/5/240 H/5/245		
250'						H/5/250 H/5/255		
260'						H/5/260		
265'	END OF HOLE.					H/5/265		
270'								

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GETTY OIL DEVELOPMENT CO LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. H/6ii
LOCATION
COORDS N E
TOTAL DEPTH 210'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL LOGGED P. GRIFFITHS.
HOLE DIAMETER
PROBE DIAMETER

STARTED 2/12/72
COMPLETED 3/12/72
SHEET 1 OF 2
SCALE 10'=1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith	Fe	Carbon	Feldspar	Other	Sample No	COMMENTS
10'	SILTY SAND: predom brown poorly sorted - rnd to subrnd xtals of qtz (70-80%) + fdpar (10-20%) + dark mineral (10%)		np	n.p.	10-20% -Xtals			Water flushed
20'	PEBBLY GRAVEL. - very poorly sorted frag rnd to subang - qtz (60%), fdpar(20%) + dolerite(10%) + 10% of mica, qtz'ite, dark minerals - occasional wood frags - up to ½" to ward 30'							Bran added.
30'				Wood frag ~1-3%				Log from 0'-30' from H/6i - due to caving in of hole, new site ~ 20yds. away selected ie H/6ii - 0'to 30' identical to H/6i
40'	CARBONACEOUS, ARKOSIC SILTY SAND: rnd to subrnd, fine to very fine xtals of 30'-70'. 50% qtz, 5% fdpar in predom brown silty matrix (40-50%) ↑ in depth % green mafic mineral to ~ 5-10% ↑ in ↑'ing grey green coloured mafic matrix - interbedded bands of peat-dark brown to black carbonaceous flakes. + soft dark brown wood frag		np	Black specks 5%	5%			
				"				
50'				↑ in black specks ~10% ↑ in matrix, 5% wood frag	"			
				black specks 15% -10% no wood				
60'				rare Wood 10-15% specks				
				interbedded peaty bands ≈ 20% - small wood frag ~3%				
70'				20-30% peaty bands -5% wood frag				
80'	70'-90' - some Qtz pebbles - contamination		"	5% wood 10-15% peat.				
	75'-130' Coarser grained silty sand - poorer sorting - fine grains of qtz + fdpar + mafic mineral (green) - % of fdpar ↑ ~ 15-20% - ie kaol after fdpar			"		15-20% Kaol after fdpar fine to medium grains		
90'	85'-130' Kaol after fdpar grains ↑ in size up to ± mm 10% green mafic mineral 40% qtz 35%-40% - matrix		"	Small wood frag-2% - peaty bands 20%				
100'			"					
110'				↑ in Wood frag 5-10% peaty bands ~ 20%				
120'			"	↑ in peaty bands ~25% ~~100~~ rare wood frag.				
130'								
140'	130'-210 - interbedded bands of dark brown, sandy silt ± grey green silty sand sandy silt - predom rnd to subrnd fine qtz ± in brown silt matrix - rare fdpar - a bt black specks. ~~- ½ of brown sandy silt ↑ to 50%~~		"					
150'								
160'				black specks ~10% no peaty bands				
	% Brown sandy silt ↑ to 50%							
170'				Wood frag ~10% black specks 10-20%				
180'								
190'				peaty bands ~10% black speck a bt ~30%				
200'								
210	CARBONACEOUS SANDY SILT: predom dark brown ± ~10% grey green silty sand		nr	2% wood frag ~30% black specks	rare			
	END							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. J/1 | CONTRACTOR Austral United Geophysical | STARTED 2/12/1972
LOCATION | GAMMA LOGGED | COMPLETED 2/12/1972
COORDS N E | GEOL. LOGGED R.J. Willink | SHEET 1 OF 1
TOTAL DEPTH 195 ft. | HOLE DIAMETER | SCALE 10 feet = 1 inch.
COLLAR ELEV. | PROBE DIAMETER

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10ft	SANDY GRAVEL - Predom gravel 60-70% in coarse to fine sand 30-40%. Poorly sorted. Abundance of sand ↑ ε depth. Gravel predom. Qtz, Qtzzite 50-60%. Dolerite + Basalt frags 40%. F/spar 10%. Pebbles generally subrounded and reach size of 1" diam commonly. Presence of igneous basalt suggests the deposit is recent. Sand predom. Qtz, F/spar. Rare patches brown (1-5% of cuttings) due to ferrug. st. Difficulty in delineating boundary due to extensive contam. 0-5ft - dark brown due to presence of carbonaceous material from surface.		As ferrug. st. in 1-5% of cuttings	0-5ft for surface carbonaceous frags.	As minor const. of sand and gravel. 10-20% Some alteration in sand.	-	J/1/0-5 J/1/10 J/1/15 J/1/20	Cuttings water flushed.
30ft	SILTY FINE SAND - variable grey to brown. Extensively contaminated with pebbles from above. Abundance of pebbles ↓ ε depth. Sand - fine gr. homogeneous texture, predom Qtz (70-80%), F/spar 20-30% (altered). Ferrug. staining 20-30ft - brown colouration. Minor silt matrix, predom clear quartz.						J/1/25 J/1/30 J/1/35	
40ft	SANDY SILT - dark grey to black (possibly carbonaceous). Fine gr, homogeneous text., sand predom Qtz.		n.p.	Possibly as finegr matrix const.	?	-	J/1/40	
60ft	SILTY SAND WITH CARBONACEOUS SILTY CLAY BANDS. silty sand - predom grey green to grey silty clay - brown to grey brown. silty sand - homogeneous text, predom Qtz 60-60%, altered F/spar 20-30%, green mineral (altered mafics) 20-30% Carbonaceous material occurs as interstial component in silty clay bands (fine gr) Silty clay bands occur as follows:- 40-45 ft < 5% carb. clay in cuttings 45-55 ft 10-20% carb clay in cuttings		n.p.	As minor component of silty sand 20-30% altered → Note where carb. clays occur under DESCRIPTION	As interstitial component in silty clay (5-10%)	-	J/1/45 J/1/50 J/1/55 J/1/60	
80ft	55-75 ft < 5% carb clay in cuttings 80-90 ft 10-20% carb clay in cuttings. 90-110 ft < 5% carb clay in cuttings 110-115 ft 50-60% carb clay in cuttings			← As peaty chip concentrations 115-120ft			J/1/65 J/1/70	
90ft	120-135 ft < 5% carb clay in cuttings 135-170 ft 80-90% carb clay in cuttings. In general carbonaceous silty clay becomes more abundant ε depth. Carbonaceous material also occurs in the form of concentrations of peaty chips ε depth see carbon.						J/1/75 J/1/80 J/1/85 J/1/90	
100ft							J/1/95 J/1/100	
110ft							J/1/105 J/1/110	
120ft							J/1/115 J/1/120	
130ft							J/1/125 J/1/130	
140ft							J/1/135 J/1/140	
150ft							J/1/145 J/1/150	
160ft							J/1/155 J/1/160	
170ft	~~End of Hole 170 ft~~						J/1/165 J/1/170	
180ft	SILACEOUS MUD - (SILICIFIED SILTY CLAY) WITH FREQUENT QUARTZ PEBBLES IN SILTY CLAY MATRIX hard compact brown silaceous material 30% of cuttings silty clay matrix 70% of cuttings (most likely due to contamination).						J/1/175 J/1/180	
190ft	Quartz pebbles white, rounded, .						J/1/185 J/1/190	
	End of Hole 195 ft .						J/1/195	
200ft								

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. M/1
LOCATION
COORDS N E
TOTAL DEPTH 90'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED P. GRIFFITHS.
HOLE DIAMETER
PROBE DIAMETER

STARTED 3/12/72
COMPLETED 3/12/72
SHEET 1 OF 1
SCALE 10' = 1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
10'	SILTY SAND: grey to orange - poorly sorted, ang to subang, fine to very fine qtz (40%) + white qtz a fdspar (2-5%) in a predom orange silt matrix (50-60%) - black specks of C. (2%) - rare qtz xtals up to ± mm		80-90% orange stain	2% - black specks	3% xtals?		M/1/5	
			60% orange stain				M/1/10	
12'	10-12': coarse silty sand. ↑ in qtz size to ± mm Qtz 60%, matrix (40%)							
20'	SILTY CLAY: - Well sorted - well compacted - predom light grey - homogeneous - % Fe stain ↑ ∝ depth - orange to brick red - % black C. speck ↑ ∝ depth. 15'-20' - rare qtz pebble up to 10 mm		orange stain 2-3%	rare black specks	2in matrix.		M/1/15	
			↑ orange stain ~15%	↑ black speck 2-3%			M/1/20	
30'	20-25' - lim nods.		↑ orange stain ~30% lim nod ~5%	↑ in black specks to ~5%			M/1/25	
	25'-30' - Predom light brown to orange		orange stain 50%				M/1/30	
40'	30-35' mottly grey, brown to orange		orange stain ~30%	"			M/1/35	
			orange stain 50% - lim nod ~5%				M/1/40	
50'	40'-45' predom light brown.		orange stain ~20%	"			M/1/45	
							M/1/50	
60'	CLAY AFTER DOLERITE: 50'-55' - dark red brown shaley competent flakes of silty 'clay stone'	+ +	100% dark red brown	np	np.		M/1/55	
	55-60': pink to orange Pink clay - contain igneous texture - competent flakes of dark brown red altered dolerite.	+ +	orange stain throughout layer.	"			M/1/60	
70'	60'-75': predom orange - dark brown nods of more competent dolerite	+ +					M/1/65	
		+ +					M/1/70	
80'	75'-90': - dark green clay - definite igneous texture.	+ +	np.				M/1/75	
		+ +					M/1/80	
90'		+ +					M/1/85	
		+ +					M/1/90	
	END:							

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GETTY OIL DEVELOPMENT CO. LTD.

PERCUSSION DRILLING LOG.

LAUNCESTON BASIN PROJECT TASMANIA

HOLE NO. M/2
LOCATION
COORDS ' N E
TOTAL DEPTH 255'
COLLAR ELEV.

CONTRACTOR AUSTRAL UNITED GEOPHYSICAL
GAMMA LOGGED
GEOL. LOGGED P.GRIFFITHS
HOLE DIAMETER
PROBE DIAMETER

STARTED 3/12/72
COMPLETED 3/12/72
SHEET OF
SCALE 10'=1"

5 cm

DEPTH	DESCRIPTION	Graphic Lith.	Fe.	Carbon	Feldspar	Other	Sample No.	COMMENTS
4'	SILTY SAND: Poorly sorted - fine qtz (30-50%) in a brick red silty matrix.		matrix 100% brick red stain	n.p.	n.p.		M/2/5	
10'	SILTY CLAY: - well sorted. - very fine qtz + ~5% mica flakes in a silt to predom clay matrix - moderately compacted - dark brown ± bands of orange (Fe) stain silty clay - grades into a predom light grey clay to silty clay ± 1" in depth.		30% orange stained	rare black specks	~1% in matrix.		M/2/10	
	10'-15' thin band of well compacted orange clay		10% orange stained	~3% black specks			M/2/15	
20'			25% orange stained	"			M/2/20	
	20'-50': bands of black silty clay (1-5%) → mottled texture.						M/2/25	
30'			10% orange stained				M/2/30	
			30% orange stained.				M/2/35	
40'			"	~5% black specks			M/2/40	
			50% orange stained.				M/2/45	
50'			90% orange stained.	rare black specks			M/2/50	
52'	dark grey silty clay - homogeneous - moderately compact. ~5% black specks + ~5% vitreous mica specks + ~1-5% very fine, white kaol. after f'd par ± in a dark grey silty clay matrix. - rare orange stain throughout the layer.		rare orange stain.	~5% black specks	1-5% white kaol. after f'd par.		M/2/55	
60'							M/2/60	
							M/2/65	
70'							M/2/70	
							M/2/75	
80'							M/2/80	
							M/2/85	
90'							M/2/90	
	90'-100': Thin band of light grey well compacted siltstone - f'd par xtal - very fine in a silt matrix.				+f'd par in siltstone.		M/2/95	
100'							M/2/100	
					~5% white kaol.		M/2/105	
110'							M/2/110	
							M/2/115	
120'							M/2/120	
							M/2/125	
130'							M/2/130	
							M/2/135	
140'							M/2/140	
							M/2/145	
150'							M/2/150	
							M/2/155	
160'							M/2/160	
							M/2/165	
170'							M/2/170	
							M/2/175	
180'							M/2/180	
	FELDSPATHIC SANDY SILT: - poorly sorted medium to very fine predom f'd par + ~5% black specks (c.) + 5-10% green mafic minerals ± in a grey white to grey green silty matrix. - ½" green mineral ↑ ed epth.		n.p.	~5% black specks	50% f'd par		M/2/185	
190'	190-200 - predom green to grey green mafic matrix.		"	"	~20% f'd par.		M/2/190	
							M/2/195	
200'	FELDSPATHIC-CARBONACEOUS SANDY SILT: as above but abt wood frag's ± in sandy silt. Wood is soft, peaty, black to dark brown.		n.p.	Wood frag's ~90% + black specks ~5%	rare		M/2/200	M/2.
							M/2/205	
210'				Wood frag ~40% + black specks.	10%		M/2/210	
				"	20%		M/2/215	
220'					30%		M/2/220	
				no wood ~5% black specks	"		M/2/225	
230'				rare Wood frag + ~5% black specks.	"		M/2/230	
					"		M/2/235	
240'	SILTY SAND - subang to sub rnd, fine to very fine qtz (~50%) + f'd par? (~10%) + ~2% black specks ± in grey silt matrix (~40%)		n.p.	~2% black specks	~10%		M/2/240	
	CARBONACEOUS SILTY SAND: abt. peaty layers + wood frag's in a brown silty matrix (60%)		n.p.	Wood frag ~40% + peaty bands ~30%	rare		M/2/245	
250'				Wood frag ~20% + peaty bands ~50-70%	"		M/2/250	Water leaked up onto road. - stopped at 255' - no sample for 250-255'
				Wood frag + peaty bands ~70%				
	END OF HOLE.							
260'								