

## Project: ROSE

## Title:

Hole Name : RV004

Date Start: 10-MAR-11 End date : 11-MAR-11

Data Source : Australian Height datum

## LOCATION

State : Tasmania

County :

Parish :

Portion :

Geological Province : Launceston Basin

Lease : EL44/2007 - Rosevale

Map Zone : Australian Map Grid 66 - Zone 55H

Easting Northing Elevation

Drill Hole Location : 488186.15 5410930.59 150.29

## DRILLING

Contractor : Spaulding Drilling

Drill Type : Rotary (Chip) Hole

Drill Rig : Spaulding Drilling

Drilled To Hole Size Core Size

149.5 178MM

## GEOPHYSICAL

Contractor : GDS

Probe Depth Probe Type

88.76 Gamma

Caliper

Dual Density

## LITHOLOGICAL

Logger's Initials : Andrew Basson

Date logged : 10-MAR-11,11-MAR-11

Interval logged : 0 to 149.5

## SEAM DETAILS

Seam Name From To

BHWE 6.48 6.48

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\*\*\*\*\*  
 TOP                  BASE                                  LITHOLOGY                                  SAMPLE  
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**Hammer**

0.000 - 1.000	SAND medium brown fine grained
( 1.000 )	silty loose extremely weathered
1.000 - 2.500	SAND variegated brownish yellow
( 1.500 )	fine grained clayey matrix low
	plasticity soft weathered
2.500 - 4.000	GRAVEL variegated yellowish white
( 1.500 )	pebbly quartzose pebbles loose
	loose subangular poorly sorted
	weathered
	Creek bed (shingle rock)
4.000 - 4.700	CLAY yellowish grey very fine
( 0.700 )	grained sandy plastic soft slightly
	weathered
4.700 - 5.000	LIGNITE medium blackish brown woody
( 0.300 )	firm firm slightly weathered
5.000 - 6.480	SAND yellowish grey fine grained
( 1.480 )	clayey matrix low plasticity soft
	slightly weathered

**6.480          \*\*\* BHWE**

6.480 - 6.760	LIGNITE dark blackish brown fibrous
( 0.280 )	firm fresh
	inferior
6.760 - 7.750	LIGNEOUS CLAY dark brown low
( 0.990 )	plasticity firm fresh with rootlets
	rare woody fragments
7.750 - 8.950	LIGNITE dark blackish brown minor
( 1.200 )	woody fragments fibrous firm fresh
8.950 - 11.970	CLAY light grey plastic soft fresh
( 3.020 )	
11.970 - 12.130	LIGNEOUS CLAY dark brown low
( 0.160 )	plasticity firm fresh
12.130 - 12.610	CLAY light grey plastic soft fresh
( 0.480 )	
12.610 - 12.800	LIGNITE dark blackish brown minor
( 0.190 )	woody fragments fibrous firm fresh

**Blade Bit**

12.800 - 14.400	LIGNEOUS CLAY medium brown rare
( 1.600 )	lignitic fragments low plasticity
	soft fresh
14.400 - 16.260	SAND medium greyish brown very fine
( 1.860 )	grained clayey matrix low
	plasticity soft fresh

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
16.260 - 18.010  LIGNITE dark blackish brown fibrous
(    1.750    )  firm fresh
18.010 - 18.670  SAND medium creamy brown fine
(    0.660    )  grained clayey matrix non plastic
                  weak rock fresh
18.670 - 20.150  LIGNITE dark blackish brown fibrous
(    1.480    )  firm fresh
20.150 - 22.850  CLAY light creamy brown plastic
(    2.700    )  firm fresh
22.850 - 23.100  LIGNITE dark blackish brown fibrous
(    0.250    )  firm fresh
23.100 - 23.370  LIGNEOUS CLAY dark brown low
(    0.270    )  plasticity soft fresh
23.370 - 25.490  LIGNITE dark blackish brown fibrous
(    2.120    )  firm fresh
25.490 - 25.810  LIGNEOUS CLAY dark brown low
(    0.320    )  plasticity soft fresh
25.810 - 26.500  LIGNITE dark blackish brown fibrous
(    0.690    )  firm fresh
26.500 - 27.270  CLAY light creamy brown plastic
(    0.770    )  soft fresh
27.270 - 27.390  LIGNEOUS CLAY dark brown low
(    0.120    )  plasticity firm fresh
27.390 - 28.750  CLAY light creamy brown plastic
(    1.360    )  soft fresh
28.750 - 28.980  LIGNITE dark blackish brown firm
(    0.230    )  fresh
28.980 - 29.600  CLAY light creamy brown plastic
(    0.620    )  soft fresh
29.600 - 30.720  LIGNITE dark blackish brown firm
(    1.120    )  fresh
30.720 - 31.670  CLAY medium creamy brown plastic
(    0.950    )  soft fresh
31.670 - 31.740  LIGNEOUS CLAY dark blackish brown
(    0.070    )  firm fresh
31.740 - 31.850  CLAY medium brown plastic firm
(    0.110    )  fresh
31.850 - 31.980  LIGNEOUS CLAY dark blackish brown
(    0.130    )  firm fresh
31.980 - 32.120  CLAY medium brown plastic firm
(    0.140    )  fresh
32.120 - 32.230  LIGNEOUS CLAY dark blackish brown
(    0.110    )  firm fresh
32.230 - 32.480  CLAY medium brown plastic firm

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
( 0.250 ) fresh
32.480 - 32.630 LIGNEOUS CLAY dark blackish brown
( 0.150 ) firm fresh
32.630 - 32.870 CLAY medium brown plastic firm
( 0.240 ) fresh
32.870 - 33.140 LIGNEOUS CLAY dark blackish brown
( 0.270 ) firm fresh
33.140 - 35.000 CLAY medium brown plastic firm
( 1.860 ) fresh
35.000 - 35.900 CLAY light creamy brown plastic
( 0.900 ) soft fresh
35.900 - 36.400 LIGNITE dark blackish brown fibrous
( 0.500 ) firm fresh
36.400 - 36.980 CLAY medium creamy brown plastic
( 0.580 ) soft fresh
36.980 - 37.350 LIGNEOUS CLAY dark blackish brown
( 0.370 ) firm fresh
37.350 - 40.000 CLAY medium creamy brown plastic
( 2.650 ) soft fresh
40.000 - 41.000 CLAY medium brown plastic firm
( 1.000 ) fresh
41.000 - 42.600 CLAY light creamy grey plastic firm
( 1.600 ) fresh
42.600 - 43.380 SIDERITE light yellowish brown fine
( 0.780 ) to medium grained dense very strong
rock fresh
43.380 - 44.050 CLAY light creamy grey plastic firm
( 0.670 ) fresh
44.050 - 44.200 LIGNITE dark blackish brown firm
( 0.150 ) fresh
44.200 - 45.120 CLAY dark brown low plasticity soft
( 0.920 ) fresh
45.120 - 45.300 LIGNITE dark blackish brown firm
( 0.180 ) fresh
45.300 - 46.000 CLAY dark brown low plasticity soft
( 0.700 ) fresh
46.000 - 47.000 CLAY light brown plastic soft fresh
( 1.000 )
47.000 - 48.000 CLAY light creamy brown plastic
( 1.000 ) soft fresh
48.000 - 50.000 CLAY light brown plastic soft fresh
( 2.000 )
50.000 - 50.900 CLAY dark brown low plasticity soft
( 0.900 ) fresh

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
50.900 - 53.200    CLAY dark brown low plasticity soft
(    2.300    )    fresh
53.200 - 53.410    LIGNITE dark blackish brown firm
(    0.210    )    fresh
53.410 - 53.740    CLAY medium brown low plasticity
(    0.330    )    soft fresh
53.740 - 53.900    LIGNITE dark blackish brown firm
(    0.160    )    fresh
53.900 - 55.250    CLAY medium brown low plasticity
(    1.350    )    soft fresh
55.250 - 55.460    LIGNITE dark blackish brown firm
(    0.210    )    fresh
55.460 - 56.000    CLAY medium brown carbonaceous
(    0.540    )    wisps throughout low plasticity
                    soft fresh
56.000 - 56.900    CLAY light creamy brown low
(    0.900    )    plasticity soft fresh
56.900 - 59.000    CLAY light creamy brown
(    2.100    )    carbonaceous fragments near base of
                    unit low plasticity soft fresh
59.000 - 62.800    CLAY light creamy white plastic
(    3.800    )    soft fresh
62.800 - 65.800    CLAY light creamy brown plastic
(    3.000    )    soft fresh
65.800 - 66.000    SIDERITE light yellowish brown very
(    0.200    )    strong rock fresh
66.000 - 67.950    CLAY light creamy brown low
(    1.950    )    plasticity soft fresh
67.950 - 69.850    CLAY dark brown low plasticity soft
(    1.900    )    fresh
69.850 - 71.000    CLAY light creamy brown low
(    1.150    )    plasticity soft fresh
71.000 - 72.000    CLAYSTONE light creamy grey weak
(    1.000    )    rock fresh
72.000 - 73.510    CLAY creamy brown non plastic soft
(    1.510    )    fresh
73.510 - 73.600    LIGNITE dark blackish brown woody
(    0.090    )    firm fresh
73.600 - 77.000    CLAY creamy brown non plastic soft
(    3.400    )    fresh
77.000 - 78.000    CLAY light creamy grey carbonaceous
(    1.000    )    wisps throughout non plastic soft
                    fresh
78.000 - 79.000    CLAYSTONE light creamy grey low

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
( 1.000 ) plasticity weak rock fresh
79.000 - 80.000 CLAY light creamy grey sandy matrix
( 1.000 ) non plastic soft fresh
80.000 - 81.000 CLAY light creamy brown low
( 1.000 ) plasticity soft fresh
81.000 - 83.450 CLAY medium creamy brown low
( 2.450 ) plasticity soft fresh
83.450 - 83.520 LIGNITE dark blackish brown firm
( 0.070 ) fresh
83.520 - 88.000 CLAYSTONE creamy brown moderately
( 4.480 ) weak rock fresh
88.000 - 90.600 CLAYSTONE light grey ligneous clay
( 2.600 ) fragments moderately weak rock
fresh
90.600 - 92.000 SAND yellowish brown fine to medium
( 1.400 ) grained quartzose minor lignitic
loose fresh
aquifer approx 2000 L/hr
92.000 - 94.000 CLAYSTONE light brown sandy
( 2.000 ) moderately weak rock fresh
94.000 - 95.000 SAND yellowish brown fine to medium
( 1.000 ) grained quartzose lignitic
fragments loose fresh
95.000 - 96.500 CLAYSTONE medium grey sandy matrix
( 1.500 ) moderately weak rock fresh
96.500 - 96.700 CLAYSTONE dark brown moderately
( 0.200 ) weak rock fresh
96.700 - 97.000 LIGNITE dark brownish black woody
( 0.300 ) firm fresh
97.000 - 98.700 CLAYSTONE medium grey sandy
( 1.700 ) lignitic fragments moderately weak
rock fresh
98.700 - 99.000 CLAYSTONE medium brown sandy
( 0.300 ) lignitic fragments moderately weak
rock fresh
99.000 - 100.500 CLAYSTONE medium grey sandy
( 1.500 ) lignitic fragments moderately weak
rock fresh
100.500 - 101.500 CLAYSTONE medium brown sandy
( 1.000 ) lignitic fragments moderately weak
rock fresh
101.500 - 102.500 CLAYSTONE medium grey sandy
( 1.000 ) lignitic fragments moderately weak
rock fresh
102.500 - 103.200 LIGNITE black woody stiff fresh
( 0.700 )

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
103.200 - 104.900  CLAYSTONE variegated brownish grey
(    1.700    )    sandy lignitic fragments weak rock
                  fresh
104.900 - 105.100  LIGNITE brownish black woody firm
(    0.200    )    fresh
105.100 - 106.000  CLAYSTONE medium grey lignitic
(    0.900    )    fragments throughout weak rock
                  fresh
106.000 - 107.000  CLAYSTONE medium brown sandy
(    1.000    )    moderately weak rock fresh
107.000 - 109.500  CLAYSTONE medium grey lignitic
(    2.500    )    fragments throughout weak rock
                  fresh
109.500 - 110.000  SAND light brownish white quartzose
(    0.500    )    loose fresh
110.000 - 110.900  CLAYSTONE medium brown sandy
(    0.900    )    lignitic fragments weak rock fresh
110.900 - 110.950  SIDERITE light brown strong rock
(    0.050    )    fresh
110.950 - 111.700  CLAYSTONE medium brownish grey
(    0.750    )    lignitic fragments throughout weak
                  rock fresh
111.700 - 111.850  SIDERITE light brown strong rock
(    0.150    )    fresh
111.850 - 113.000  CLAYSTONE medium brown minor
(    1.150    )    sandstone bands moderately weak
                  rock fresh
113.000 - 119.000  SANDSTONE medium orangy brown fine
(    6.000    )    to medium grained carbonaceous
                  bands throughout moderately strong
                  rock fresh
119.000 - 124.000  SANDSTONE brownish grey fine
(    5.000    )    grained carbonaceous bands
                  throughout moderately strong rock
                  fresh
124.000 - 137.000  CLAYSTONE light brown sandstone
(   13.000    )    fragments throughout moderately
                  weak rock fresh
137.000 - 149.500  CLAYSTONE medium brown sandstone
(   12.500    )    fragments throughout moderately
                  weak rock fresh
                  last 42 meters highly inaccurate
                  due to high amounts of wash and low
                  sample return
149.500          ***** TOTAL DEPTH *****

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