

## Project: ROSE

## Title:

Hole Name : RV001

Date Start: 22-FEB-11 End date : 23-FEB-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 84 - Zone 55H

Easting Northing Elevation

Drill Hole Location : 496230.45 5411928.04 145.03

## DRILLING

Contractor : Spaulding Drilling

Drill Type : Rotary (Chip) Hole

Drill Rig : Spaulding Drilling

Drilled To	Hole Size	Core Size
121	178MM	

## GEOPHYSICAL

Contractor : GDS

Probe Depth Probe Type

53.03	Gamma
	Caliper
	Dual Density

## LITHOLOGICAL

Logger's Initials : Andrew Basson

Date logged : 22-FEB-11,23-FEB-11

Interval logged : 0 to 121

## SEAM DETAILS

Seam Name	From	To
BHWE	6.00	6.00
BHWL	60.00	60.00

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

```
0.000 - 1.000    CLAY medium brownish yellow silty
(    1.000    )    kaolinitic firm extremely weathered
1.000 - 3.000    CLAY medium brownish yellow
(    2.000    )    sideritic fragments throughout low
                    plasticity firm extremely weathered
3.000 - 4.000    CLAY medium brown plastic firm
(    1.000    )    weathered
4.000 - 4.600    CLAY dark brownish black plastic
(    0.600    )    firm slightly weathered
4.600 - 5.000    LIGNITE brownish black woody firm
(    0.400    )    slightly weathered
5.000 - 6.000    CLAY light brownish offwhite
(    1.000    )    plastic firm slightly weathered
```

**Blade Bit**

6.000 \*\*\* BHWE

```
6.000 - 6.520    CLAYSTONE light brownish offwhite
(    0.520    )    plastic firm fresh
6.520 - 7.050    LIGNITE brownish black woody
(    0.530    )    moderately weak rock fresh
7.050 - 7.120    CLAYSTONE light brownish offwhite
(    0.070    )    plastic firm fresh
7.120 - 7.450    LIGNITE brownish black moderately
(    0.330    )    weak rock fresh
7.450 - 9.000    CLAYSTONE light brownish offwhite
(    1.550    )    plastic firm fresh
9.000 - 9.100    LIGNEOUS CLAY dark brown fibrous
(    0.100    )    firm fresh
9.100 - 10.870   LIGNITE dark brownish black woody
(    1.770    )    moderately weak rock fresh
10.870 - 11.320  LIGNEOUS CLAY dark brown fibrous
(    0.450    )    firm fresh
11.320 - 11.750  LIGNITE dark brownish black
(    0.430    )    moderately weak rock fresh
11.750 - 11.850  CLAYSTONE light brownish offwhite
(    0.100    )    plastic firm fresh
11.850 - 12.150  LIGNITE brownish black woody
(    0.300    )    moderately weak rock fresh
12.150 - 12.650  CLAYSTONE medium brownish offwhite
(    0.500    )    plastic firm fresh
12.650 - 15.150  LIGNITE brownish black woody clayey
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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
(    2.500    )    bands moderately weak rock fresh
15.150 - 17.050    CLAYSTONE black minor ligneous clay
(    1.900    )    fragments partly puggy firm fresh
17.050 - 17.250    LIGNITE brownish black moderately
(    0.200    )    weak rock fresh
17.250 - 18.100    CLAYSTONE black partly puggy firm
(    0.850    )    fresh
18.100 - 20.320    LIGNITE brownish black moderately
(    2.220    )    weak rock fresh
20.320 - 20.570    CLAYSTONE firm fresh
(    0.250    )
20.570 - 21.150    LIGNITE brownish black moderately
(    0.580    )    weak rock fresh
21.150 - 21.250    CLAYSTONE dark brown carbonaceous
(    0.100    )    plastic firm fresh
21.250 - 22.000    CLAYSTONE light brownish offwhite
(    0.750    )    plastic firm fresh
22.000 - 22.450    LIGNITE brownish black moderately
(    0.450    )    weak rock fresh
22.450 - 22.900    CLAYSTONE light brownish offwhite
(    0.450    )    plastic firm fresh
22.900 - 23.700    LIGNEOUS CLAY dark brownish black
(    0.800    )    carbonaceous fibrous firm fresh
23.700 - 24.500    LIGNITE brownish black moderately
(    0.800    )    weak rock fresh
24.500 - 29.000    CLAYSTONE light greyish offwhite
(    4.500    )    plastic firm fresh
29.000 - 33.300    CLAYSTONE light grey silty partly
(    4.300    )    puggy firm fresh
33.300 - 35.100    LIGNITE brownish black woody
(    1.800    )    moderately weak rock fresh
35.100 - 35.220    CLAYSTONE light grey minor ligneous
(    0.120    )    clay fragments partly puggy firm
                    fresh
35.220 - 35.770    LIGNITE brownish black woody
(    0.550    )    moderately weak rock fresh
35.770 - 36.000    CLAYSTONE medium brownish grey
(    0.230    )    ligneous clay fragments throughout
                    plastic firm fresh
36.000 - 40.000    CLAYSTONE medium brownish offwhite
(    4.000    )    ligneous clay fragments throughout
                    plastic firm fresh
40.000 - 41.000    CLAYSTONE medium brownish offwhite
(    1.000    )    minor ligneous clay fragments
                    plastic firm fresh

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
41.000 - 43.200  CLAYSTONE medium brownish grey
(    2.200    )  plastic firm fresh
43.200 - 43.500  LIGNITE brownish black moderately
(    0.300    )  weak rock fresh
43.500 - 45.900  CLAYSTONE medium brownish grey
(    2.400    )  plastic firm fresh
45.900 - 46.400  LIGNITE brownish black moderately
(    0.500    )  weak rock fresh
46.400 - 46.600  CLAYSTONE medium brownish grey
(    0.200    )  plastic firm fresh
46.600 - 47.100  LIGNITE brownish black moderately
(    0.500    )  weak rock fresh
47.100 - 49.900  CLAYSTONE medium brownish grey
(    2.800    )  plastic firm fresh
49.900 - 50.200  LIGNITE brownish black moderately
(    0.300    )  weak rock fresh
50.200 - 52.900  CLAYSTONE medium brownish grey
(    2.700    )  ligneous clay fragments throughout
                    plastic firm fresh
52.900 - 54.000  CLAYSTONE light offwhite plastic
(    1.100    )  firm fresh
                    swelling clay
54.000 - 60.000  CLAYSTONE light offwhite sandy
(    6.000    )  grains throughout plastic
                    moderately weak rock fresh

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60.000	*** BHWEL
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60.000 - 64.000  CLAYSTONE light offwhite sandy
(    4.000    )  grains throughout plastic
                    moderately weak rock fresh minor
                    root traces
64.000 - 67.500  CLAYSTONE brownish offwhite sandy
(    3.500    )  grains throughout plastic
                    moderately weak rock fresh minor
                    root traces near base of unit
67.500 - 71.700  SANDSTONE medium brown very fine
(    4.200    )  grained moderately strong rock
                    fresh
71.700 - 71.900  CLAYSTONE light offwhite plastic
(    0.200    )  firm fresh
71.900 - 72.050  LIGNITE brownish black moderately
(    0.150    )  weak rock fresh
72.050 - 72.800  CLAYSTONE light offwhite plastic
(    0.750    )  firm fresh
72.800 - 73.100  MUDSTONE medium brown moderately

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*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
(    0.300    )    weak rock fresh
73.100 - 73.700    MUDSTONE dark blackish brown
(    0.600    )    moderately weak rock fresh
73.700 - 74.000    LIGNITE black moderately weak rock
(    0.300    )    fresh
74.000 - 76.900    MUDSTONE medium brown clayey bands
(    2.900    )    throughout moderately weak rock
                    fresh
76.900 - 77.000    LIGNITE brownish black moderately
(    0.100    )    weak rock fresh
77.000 - 77.400    SANDSTONE medium brown very fine
(    0.400    )    grained moderately strong rock
                    fresh
                    small sample return
77.400 - 77.900    CLAYSTONE light offwhite partly
(    0.500    )    puggy moderately weak rock fresh
77.900 - 80.000    MUDSTONE medium brown ligneous clay
(    2.100    )    fragments throughout moderately
                    weak rock fresh
80.000 - 80.500    CLAYSTONE light offwhite partly
(    0.500    )    puggy moderately weak rock fresh
80.500 - 82.600    SANDSTONE medium brown very fine
(    2.100    )    grained moderately strong rock
                    fresh
                    small sample return
82.600 - 83.400    CLAYSTONE light offwhite mudstone
(    0.800    )    bands throughout moderately weak
                    rock fresh
83.400 - 83.900    SANDSTONE medium brown very fine
(    0.500    )    grained moderately strong rock
                    fresh
                    small sample return
83.900 - 86.200    SANDSTONE brownish red medium
(    2.300    )    grained mudstone clayey bands
                    moderately strong rock fresh
                    small aquifer hit. approx 1000
                    liters and hour
86.200 - 90.000    CLAYSTONE light greenish grey sandy
(    3.800    )    fragments throughout sideritic
                    fragments near base of unit
                    moderately strong rock fresh fresh
90.000 - 95.000    CLAYSTONE light greenish grey muddy
(    5.000    )    bands throughout moderately weak
                    rock fresh
95.000 - 101.000   CLAYSTONE brownish offwhite sticky
(    6.000    )    clay moderately weak rock fresh
                    small sample return due to clay

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*****
TOP          BASE          LITHOLOGY          SAMPLE
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101.000 - 103.500  CLAYSTONE bluish green heat
(    2.500    )    affected moderately weak rock fresh
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**Hammer**

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103.500 - 104.000  SIDERITE medium brown strong rock
(    0.500    )    fresh
104.000 - 108.000  CLAYSTONE light greyish offwhite
(    4.000    )    minor mudstone bands moderately
                    weak rock fresh
108.000 - 110.000  CLAYSTONE light greyish offwhite
(    2.000    )    doleritic fragments throughout
                    moderately strong rock fresh
110.000 - 118.000  DOLERITE dark greenish black clayey
(    8.000    )    fragments near top of unit strong
                    rock fresh
118.000 - 121.000  DOLERITE dark greenish black
(    3.000    )    oolitic mudstone fragments
                    moderately weak rock fresh with
                    fractures
                    producing approx 20 000 liters an
                    hour
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121.000          *****  TOTAL DEPTH  *****
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