

Project: ROSE

Title:

Hole Name : RV003

Date Start: 08-MAR-11 End date : 09-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 84 - Zone 55H
 Easting Northing Elevation
 Drill Hole Location : 492993.33 5412428.02 202.46

DRILLING

Contractor : Spaulding Drilling
 Drill Type : Rotary (Chip) Hole
 Drill Rig : Spaulding Drilling
 Drilled To Hole Size Core Size
 161 178MM

GEOPHYSICAL

Contractor : GDS
 Probe Depth Probe Type
 141.57 Gamma
 Caliper
 Dual Density

LITHOLOGICAL

Logger's Initials : Lindsay Smith
 Date logged : 08-MAR-11,09-MAR-11
 Interval logged : 0 to 161

SEAM DETAILS

Seam Name	From	To
BHWE	12.10	12.10
7	28.25	30.15
8	31.57	35.25
9	36.28	39.10
H1	48.80	50.65
H2	51.30	52.32
I	53.09	54.41
J1	55.35	57.55
J2	59.69	61.40
K	62.33	65.23
L	69.42	70.45
M	71.60	73.17
N	73.55	77.19

Project: ROSE

Title:

Hole Name : RV003

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
```

Hammer

```
0.000 - 1.400    DOLERITE medium reddish brown
(    1.400    )    doleritic fragments throughout
                    puggy stiff extremely weathered
                    dolerite pebbles weathered to clay
1.400 - 2.000    SOIL dark purplish brown doleritic
(    0.600    )    boulders throughout puggy stiff
                    moderately weathered
2.000 - 3.400    SOIL medium reddish brown doleritic
(    1.400    )    fragments throughout puggy soft
                    moderately weathered
3.400 - 5.000    DOLERITE dark grey solid core
(    1.600    )    moderately strong rock moderately
                    weathered
5.000 - 10.200   DOLERITE dark grey sideritic
(    5.200    )    fragments near base of unit solid
                    core moderately strong rock
                    slightly weathered
                    red fragments, poss siderite.photo
                    taken
10.200 - 11.200   CLAY medium yellowish brown heat
(    1.000    )    affected non plastic very soft
                    slightly weathered
11.200 - 12.100   CLAY medium brownish grey plastic
(    0.900    )    soft slightly weathered
```

12.100 * BHWE**

```
12.100 - 18.000   CLAY medium brownish grey doleritic
(    5.900    )    fragments near middle of unit
                    plastic soft fresh
```

Blade Bit

```
18.000 - 19.000   CLAY medium brownish grey plastic
(    1.000    )    soft fresh
19.000 - 19.100   CLAY dark brownish grey plastic
(    0.100    )    firm fresh
19.100 - 19.200   LIGNITE dark brownish black
(    0.100    )    lignitic friable very weak rock
                    fresh
19.200 - 19.600   CLAY dark brownish grey plastic
(    0.400    )    firm fresh
19.600 - 21.200   CLAY medium brownish grey doleritic
(    1.600    )    boulders throughout plastic stiff
                    fresh
21.200 - 22.500   CLAY light grey doleritic fragments
                    throughout plastic soft fresh
```

Project: ROSE

Title:

Hole Name : RV003

 TOP BASE LITHOLOGY SAMPLE

(1.300)
 22.500 - 22.600 LIGNITE dark brownish black friable
 (0.100) very weak rock fresh
 22.600 - 23.400 CLAY medium brownish grey plastic
 (0.800) soft fresh
 23.400 - 23.550 LIGNITE dark brownish black friable
 (0.150) very weak rock fresh
 23.550 - 23.900 CLAY light grey plastic soft fresh
 (0.350)
 23.900 - 25.570 CARBONACEOUS CLAYSTONE dark
 (1.670) brownish grey claystone fragments
 throughout plastic firm fresh
 25.570 - 26.650 CARBONACEOUS CLAYSTONE dark
 (1.080) brownish grey claystone fragments
 throughout plastic firm fresh
 26.650 - 26.750 LIGNITE dark brownish black friable
 (0.100) very weak rock fresh
 26.750 - 27.000 CARBONACEOUS CLAYSTONE dark
 (0.250) brownish grey plastic stiff fresh
 27.000 - 27.350 CARBONACEOUS CLAYSTONE dark
 (0.350) brownish grey plastic firm fresh
 27.350 - 27.450 LIGNITE dark brownish black friable
 (0.100) very weak rock fresh
 27.450 - 28.250 CARBONACEOUS CLAYSTONE dark
 (0.800) brownish grey plastic firm fresh

28.250 *** TOP OF 7

28.250 - 28.730 LIGNITE dark brownish grey plastic
 (0.480) firm fresh
 28.730 - 28.890 CARBONACEOUS CLAYSTONE dark
 (0.160) brownish grey plastic firm fresh
 28.890 - 29.090 LIGNITE dark brownish grey plastic
 (0.200) firm fresh
 29.090 - 29.250 CARBONACEOUS CLAYSTONE dark
 (0.160) brownish grey plastic firm fresh
 29.250 - 30.150 LIGNITE dark brownish black
 (0.900) sideritic fragments throughout
 friable very weak rock fresh
 poss weathered siderite as before

30.150 *** BASE OF 7

*** GEOLOGICAL THICKNESS: 1.900 Metres ***

30.150 - 31.570 CARBONACEOUS CLAYSTONE medium
 (1.420) brownish grey plastic firm fresh

Project: ROSE

Title:

Hole Name : RV003

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
```

31.570		*** TOP OF 8
31.570 - 34.120		LIGNITE dark brownish black
(2.550)		sideritic fragments throughout
		friable very weak rock fresh
34.120 - 34.520		CARBONACEOUS SILTSTONE medium
(0.400)		brownish grey low plasticity firm
		fresh
34.520 - 35.250		LIGNITE dark brownish black friable
(0.730)		very weak rock fresh

35.250		*** BASE OF 8
*** GEOLOGICAL THICKNESS:		3.680 Metres ***
35.250 - 36.200		CARBONACEOUS SILTSTONE medium
(0.950)		brownish grey low plasticity firm
		fresh
36.200 - 36.275		CLAY medium grey plastic firm fresh
(0.075)		

36.275		*** TOP OF 9
36.275 - 36.450		LIGNITE medium grey plastic firm
(0.175)		fresh
36.450 - 36.950		CLAY medium grey plastic firm fresh
(0.500)		
36.950 - 39.100		LIGNITE dark brownish black
(2.150)		sideritic fragments throughout
		friable very weak rock fresh

39.100		*** BASE OF 9
*** GEOLOGICAL THICKNESS:		2.825 Metres ***
39.100 - 40.200		CARBONACEOUS SILTSTONE dark
(1.100)		brownish grey coaly fragments
		throughout low plasticity soft
		fresh
40.200 - 44.000		CLAYSTONE light brownish grey low
(3.800)		plasticity soft fresh
44.000 - 45.770		CARBONACEOUS SILTSTONE medium
(1.770)		brownish grey sandy in part low
		plasticity soft fresh
45.770 - 46.310		LIGNEOUS CLAY dark brownish black
(0.540)		friable very weak rock fresh
46.310 - 46.900		CARBONACEOUS SILTSTONE dark
(0.590)		brownish grey low plasticity soft
		fresh
46.900 - 47.230		LIGNEOUS CLAY dark brownish black
(0.330)		friable very weak rock fresh

Project: ROSE

Title:

Hole Name : RV003

TOP	BASE	LITHOLOGY	SAMPLE
-----	------	-----------	--------

47.230 - 48.800 CARBONACEOUS SILTSTONE medium
(1.570) brownish grey low plasticity soft
fresh

```
48.800      *** TOP OF H1
```

48.800 - 49.150 (0 350)	LIGNITE dark brownish black friable very weak rock fresh
------------------------------	---

49.150 - 49.550	CARBONACEOUS SILTSTONE medium
(0.400)	brownish grey low plasticity soft
	fresh

49.550 - 50.200 (0.650)	LIGNITE dark brownish black friable very weak rock fresh
------------------------------	---

50.200 - 50.277 (0.077)	CARBONACEOUS SILTSTONE medium brownish grey low plasticity soft fresh
------------------------------	---

50.277 - 50.646 (0.369)	LIGNITE medium brownish grey low plasticity soft fresh
------------------------------	---

```
50.646      *** BASE OF H1
```

*** GEOLOGICAL THICKNESS: 1.846 Metres ***

50.646 - 51.301 (0.655)	CARBONACEOUS SILTSTONE medium brownish grey low plasticity soft fresh
------------------------------	---

```
51.301      *** TOP OF H2
```

51.301 - 52.320 (1.019)	LIGNITE medium brownish grey low plasticity soft fresh
------------------------------	---

```
52.320      *** BASE OF H2
```

*** GEOLOGICAL THICKNESS: 1.019 Metres ***

52.320 - 53.090	CARBONACEOUS SILTSTONE medium
(0.770)	brownish grey low plasticity soft
	fresh

```
53.090      *** TOP OF I
```

53.090 - 53.330 (0 240)	LIGNITE medium brownish grey low plasticity soft fresh
------------------------------	---

53.330 - 53.400	CARBONACEOUS SILTSTONE medium
(0.070)	brownish grey low plasticity soft
	fresh

53.400 - 53.700	LIGNITE dark brownish black friable
(0 300)	very weak rock fresh

53.700 - 53.930 (0.230)	CARBONACEOUS SILTSTONE medium brownish grey low plasticity soft fresh
------------------------------	---

53.930 - 54.410 LIGNITE medium brownish grey low

Project: ROSE

Title:

Hole Name : RV003

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
```

```
(    0.480    ) | plasticity soft fresh
```

```
54.410          *** BASE OF I
```

```
*** GEOLOGICAL THICKNESS:    1.320 Metres    ***
```

```
54.410 - 55.350  CARBONACEOUS SILTSTONE medium
(    0.940    )  brownish grey low plasticity soft
                  fresh
```

```
55.350          *** TOP OF J1
```

```
55.350 - 57.550  LIGNITE dark brownish black friable
(    2.200    )  very weak rock fresh
```

```
57.550          *** BASE OF J1
```

```
*** GEOLOGICAL THICKNESS:    2.200 Metres    ***
```

```
57.550 - 57.600  CARBONACEOUS SILTSTONE medium
(    0.050    )  brownish grey coaly fragments
                  throughout low plasticity soft
                  fresh
57.600 - 59.300  SILTSTONE light brownish grey low
(    1.700    )  plasticity soft fresh
59.300 - 59.693  CARBONACEOUS SILTSTONE medium
(    0.393    )  brownish grey low plasticity soft
                  fresh
```

```
59.693          *** TOP OF J2
```

```
59.693 - 59.850  LIGNITE medium brownish grey low
(    0.157    )  plasticity soft fresh
59.850 - 60.050  CARBONACEOUS SILTSTONE medium
(    0.200    )  brownish grey low plasticity soft
                  fresh
60.050 - 60.290  LIGNITE medium brownish grey low
(    0.240    )  plasticity soft fresh
60.290 - 60.900  CARBONACEOUS SILTSTONE medium
(    0.610    )  brownish grey low plasticity soft
                  fresh
60.900 - 61.400  LIGNITE dark brownish black friable
(    0.500    )  very weak rock fresh
```

```
61.400          *** BASE OF J2
```

```
*** GEOLOGICAL THICKNESS:    1.707 Metres    ***
```

```
61.400 - 62.330  CARBONACEOUS SILTSTONE medium
(    0.930    )  brownish grey low plasticity soft
                  fresh
```

```
62.330          *** TOP OF K
```

Project: ROSE

Title:

Hole Name : RV003

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
```

```
62.330 - 62.810 | LIGNITE medium brownish grey low
( 0.480 ) | plasticity soft fresh
62.810 - 63.100 | CARBONACEOUS SILTSTONE medium
( 0.290 ) | brownish grey low plasticity soft
fresh
63.100 - 63.370 | CARBONACEOUS SILTSTONE light
( 0.270 ) | brownish grey broken core weak rock
fresh
63.370 - 65.230 | LIGNITE dark brownish black friable
( 1.860 ) | very weak rock fresh
```

65.230 *** BASE OF K

*** GEOLOGICAL THICKNESS: 2.900 Metres ***

```
65.230 - 68.705 | CARBONACEOUS SILTSTONE medium
( 3.475 ) | brownish grey low plasticity soft
fresh
68.705 - 68.810 | LIGNITE medium brownish grey low
( 0.105 ) | plasticity soft fresh
68.810 - 69.420 | CARBONACEOUS SILTSTONE medium
( 0.610 ) | brownish grey low plasticity soft
fresh
```

69.420 *** TOP OF L

```
69.420 - 70.450 | LIGNITE dark brownish black friable
( 1.030 ) | very weak rock fresh
```

70.450 *** BASE OF L

*** GEOLOGICAL THICKNESS: 1.030 Metres ***

```
70.450 - 71.600 | CARBONACEOUS SILTSTONE medium
( 1.150 ) | brownish grey low plasticity soft
fresh
```

71.600 *** TOP OF M

```
71.600 - 72.300 | LIGNITE dark brownish black friable
( 0.700 ) | very weak rock fresh
72.300 - 72.410 | CARBONACEOUS SILTSTONE medium
( 0.110 ) | brownish grey low plasticity soft
fresh
72.410 - 73.100 | LIGNITE medium brownish grey low
( 0.690 ) | plasticity soft fresh
73.100 - 73.170 | LIGNITE medium brownish grey non
( 0.070 ) | plastic very weak rock fresh
```

73.170 *** BASE OF M

*** GEOLOGICAL THICKNESS: 1.570 Metres ***

```
73.170 - 73.550 | CLAYSTONE medium brownish grey non
```

Project: ROSE

Title:

Hole Name : RV003

 TOP BASE LITHOLOGY SAMPLE

(0.380) plastic very weak rock fresh

73.550 *** TOP OF N

73.550 - 73.950 LIGNITE dark brownish black friable
 (0.400) very weak rock fresh

73.950 - 74.100 CARBONACEOUS SILTSTONE medium
 (0.150) brownish grey low plasticity soft
 fresh

74.100 - 74.600 LIGNITE dark brownish black friable
 (0.500) very weak rock fresh

74.600 - 74.750 CARBONACEOUS SILTSTONE medium
 (0.150) brownish grey low plasticity soft
 fresh

74.750 - 75.100 LIGNITE dark brownish black friable
 (0.350) very weak rock fresh

75.100 - 75.750 CARBONACEOUS SILTSTONE medium
 (0.650) brownish grey coaly fragments
 throughout low plasticity soft
 fresh

75.750 - 77.190 LIGNITE dark brownish black friable
 (1.440) very weak rock fresh

77.190 *** BASE OF N

*** GEOLOGICAL THICKNESS: 3.640 Metres ***

77.190 - 80.500 CARBONACEOUS SILTSTONE medium
 (3.310) brownish grey clayey fragments in
 part non plastic firm fresh

80.500 - 80.730 CARBONACEOUS SILTSTONE dark
 (0.230) brownish grey coaly fragments
 throughout non plastic firm fresh

80.730 - 81.570 LIGNITE dark brownish grey coaly
 (0.840) fragments throughout non plastic
 firm fresh

81.570 - 81.988 CARBONACEOUS SILTSTONE dark
 (0.418) brownish grey coaly fragments
 throughout non plastic firm fresh

81.988 - 82.330 LIGNITE dark brownish grey coaly
 (0.342) fragments throughout non plastic
 firm fresh

82.330 - 82.564 CARBONACEOUS SILTSTONE dark
 (0.234) brownish grey coaly fragments
 throughout non plastic firm fresh

82.564 - 82.679 LIGNITE dark brownish grey coaly
 (0.115) fragments throughout non plastic
 firm fresh

82.679 - 83.550 CARBONACEOUS SILTSTONE dark
 (0.871) brownish grey coaly fragments

Project: ROSE

Title:

Hole Name : RV003

```

*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
                                throughout non plastic firm fresh
83.550 - 84.100  LIGNITE dark brownish black friable
(    0.550    )  very weak rock fresh
84.100 - 84.300  LIGNITE light grey broken core very
(    0.200    )  weak rock fresh
84.300 - 85.233  CARBONACEOUS SILTSTONE dark
(    0.933    )  brownish grey lignitic fragments
                                throughout non plastic very weak
                                rock fresh
85.233 - 85.850  LIGNITE dark brownish grey lignitic
(    0.617    )  fragments throughout non plastic
                                very weak rock fresh
85.850 - 86.370  CARBONACEOUS SILTSTONE dark
(    0.520    )  brownish grey lignitic fragments
                                throughout non plastic very weak
                                rock fresh
86.370 - 86.650  LIGNITE dark brownish grey lignitic
(    0.280    )  fragments throughout non plastic
                                very weak rock fresh
86.650 - 87.900  CARBONACEOUS SILTSTONE dark
(    1.250    )  brownish grey lignitic fragments
                                throughout non plastic very weak
                                rock fresh
87.900 - 89.200  LIGNITE dark brownish black friable
(    1.300    )  very weak rock fresh
89.200 - 89.450  CARBONACEOUS SILTSTONE dark
(    0.250    )  brownish grey tough very weak rock
                                fresh
89.450 - 89.650  LIGNITE dark brownish black friable
(    0.200    )  very weak rock fresh
89.650 - 90.650  CARBONACEOUS SILTSTONE medium
(    1.000    )  brownish grey non plastic very weak
                                rock fresh
                                clay tacky yellow orange, sometimes
                                partly mottled brown inside,
                                washing out to at least 120m
90.650 - 90.820  LIGNITE dark brownish black friable
(    0.170    )  very weak rock fresh
90.820 - 90.900  CARBONACEOUS SILTSTONE medium
(    0.080    )  brownish grey clayey bands
                                throughout non plastic very weak
                                rock fresh
90.900 - 91.550  LIGNITE dark brownish black friable
(    0.650    )  very weak rock fresh
91.550 - 91.761  CARBONACEOUS SILTSTONE medium
(    0.211    )  brownish grey non plastic very weak
                                rock fresh

```

Project: ROSE

Title:

Hole Name : RV003

```

*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
91.761 - 91.953  LIGNITE medium brownish grey non
( 0.192 ) plastic very weak rock fresh
91.953 - 92.500  CARBONACEOUS SILTSTONE medium
( 0.547 ) brownish grey non plastic very weak
rock fresh
92.500 - 93.110  LIGNITE dark brownish black friable
( 0.610 ) very weak rock fresh
93.110 - 93.520  CARBONACEOUS SILTSTONE medium
( 0.410 ) brownish grey non plastic very weak
rock fresh
93.520 - 94.150  LIGNITE dark brownish black friable
( 0.630 ) very weak rock fresh
94.150 - 94.600  CARBONACEOUS SILTSTONE medium
( 0.450 ) brownish grey non plastic very weak
rock fresh
94.600 - 95.450  CLAYSTONE medium brownish grey non
( 0.850 ) plastic very weak rock fresh
95.450 - 96.100  LIGNITE dark brownish black friable
( 0.650 ) very weak rock fresh
96.100 - 96.200  CARBONACEOUS SILTSTONE medium
( 0.100 ) greyish brown plastic firm fresh
96.200 - 98.200  CLAY light brownish grey plastic
( 2.000 ) soft fresh
98.200 - 99.250  CARBONACEOUS SILTSTONE dark
( 1.050 ) brownish grey low plasticity firm
fresh
99.250 - 100.100 LIGNITE dark brownish black friable
( 0.850 ) very weak rock fresh
100.100 - 100.410 CARBONACEOUS SILTSTONE dark
( 0.310 ) brownish grey low plasticity firm
fresh
100.410 - 100.690 LIGNITE dark brownish grey low
( 0.280 ) plasticity firm fresh
100.690 - 104.020 CARBONACEOUS SILTSTONE dark
( 3.330 ) brownish grey low plasticity firm
fresh
104.020 - 104.350 LIGNITE dark brownish black friable
( 0.330 ) very weak rock fresh
104.350 - 104.900 CLAY light brownish grey plastic
( 0.550 ) soft fresh
104.900 - 107.630 LIGNITE dark brownish black friable
( 2.730 ) very weak rock fresh
107.630 - 108.500 CARBONACEOUS SILTSTONE dark
( 0.870 ) brownish grey clayey fragments
throughout non plastic very weak
rock fresh

```

Project: ROSE

Title:

Hole Name : RV003

```

*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
108.500 - 109.950  CARBONACEOUS SILTSTONE medium
( 1.450 ) brownish grey non plastic very weak
rock fresh
109.950 - 111.430  LIGNITE dark brownish black friable
( 1.480 ) very weak rock fresh
111.430 - 112.710  CARBONACEOUS SILTSTONE medium
( 1.280 ) brownish grey non plastic very weak
rock fresh
112.710 - 114.070  LIGNITE dark brownish black friable
( 1.360 ) very weak rock fresh
114.070 - 114.630  CARBONACEOUS SILTSTONE medium
( 0.560 ) brownish grey non plastic very weak
rock fresh
114.630 - 115.700  LIGNITE dark brownish black friable
( 1.070 ) very weak rock fresh
115.700 - 115.950  CARBONACEOUS SILTSTONE medium
( 0.250 ) brownish grey non plastic very weak
rock fresh
115.950 - 116.400  LIGNITE dark brownish black friable
( 0.450 ) very weak rock fresh
116.400 - 116.710  CARBONACEOUS SILTSTONE medium
( 0.310 ) brownish grey non plastic very weak
rock fresh
116.710 - 117.700  LIGNITE dark brownish black friable
( 0.990 ) very weak rock fresh
117.700 - 117.950  CARBONACEOUS SILTSTONE medium
( 0.250 ) brownish grey non plastic very weak
rock fresh
117.950 - 118.850  LIGNITE dark brownish black friable
( 0.900 ) very weak rock fresh
118.850 - 119.450  CARBONACEOUS SILTSTONE medium
( 0.600 ) brownish grey non plastic very weak
rock fresh
119.450 - 120.150  LIGNITE dark brownish black friable
( 0.700 ) very weak rock fresh
120.150 - 122.410  CARBONACEOUS SILTSTONE medium
( 2.260 ) brownish grey coaly fragments
throughout non plastic very weak
rock fresh
122.410 - 122.747  LIGNITE medium brownish grey coaly
( 0.337 ) fragments throughout non plastic
very weak rock fresh
122.747 - 123.000  CARBONACEOUS SILTSTONE medium
( 0.253 ) brownish grey coaly fragments
throughout non plastic very weak
rock fresh
123.000 - 123.190  LIGNITE dark brownish black friable

```


Project: ROSE

Title:

Hole Name : RV003

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
```

3.500) fresh

eoh

161.000 ***** TOTAL DEPTH *****