

## Project: YORK

## Title:

Hole Name : YP001

Date Start: 08-FEB-11 End date : 09-FEB-11

Data Source :

## LOCATION

State : Tasmania  
 County :  
 Parish :  
 Portion :  
 Geological Province : Tasmania Basin  
 Lease : EL49/2007 - York Plains  
 Map Zone : AMG84 - Zone 55H  
 Easting Northing Elevation  
 Drill Hole Location : 538935.80 5321056.02 382.70

## DRILLING

Contractor : Spaulding Drillers  
 Drill Type : Rotary (Chip) Hole  
 Drill Rig : Spaulding Drillers  
 Drilled To Hole Size Core Size  
 150 178mm

## GEOPHYSICAL

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

## LITHOLOGICAL

Logger's Initials : Lindsay Smith  
 Date logged : 08-FEB-11,09-FEB-11  
 Interval logged : 0 to 150

## SEAM DETAILS

Seam Name	From	To
BHWE	6.00	6.00
VB	13.57	15.43
U	29.00	31.70

Project: YORK

Title:

Hole Name : YP001

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

Hammer

0.000 - 1.000 ( 1.000 )	SOIL light brown fine to medium grained clayey firm extremely weathered
1.000 - 2.000 ( 1.000 )	SANDSTONE medium brown medium grained soft extremely weathered
2.000 - 6.000 ( 4.000 )	SANDSTONE medium brown medium and coarse grained very weak rock highly weathered

6.000 \*\*\* Base Horizon of Weathering

6.000 - 8.000 ( 2.000 )	SANDSTONE medium grey medium grained carbonaceous partings near middle of unit weak rock fresh
8.000 - 13.570 ( 5.570 )	SANDSTONE medium grey medium grained minor coaly wisps weak rock fresh

13.570 \*\*\* TOP OF VB Seam

13.570 - 14.420 ( 0.850 )	COAL UNDIFF black fresh
14.420 - 14.620 ( 0.200 )	SILTSTONE medium grey moderately weak rock fresh
14.620 - 14.750 ( 0.130 )	COAL UNDIFF black fresh
14.750 - 15.110 ( 0.360 )	SILTSTONE medium grey moderately weak rock fresh
15.110 - 15.430 ( 0.320 )	COAL UNDIFF black fresh

15.430 \*\*\* BASE OF VB Seam

\*\*\* GEOLOGICAL THICKNESS: 1.860 Metres \*\*\*

15.430 - 17.000 ( 1.570 )	SILTSTONE medium grey moderately weak rock fresh
17.000 - 18.000 ( 1.000 )	SANDSTONE light grey very fine grained moderately weak rock fresh
18.000 - 19.000 ( 1.000 )	SANDSTONE medium grey fine to medium grained carbonaceous throughout moderately weak rock fresh
19.000 - 20.000 ( 1.000 )	SANDSTONE medium grey fine to medium grained moderately weak rock fresh
20.000 - 22.000 ( 2.000 )	SANDSTONE medium grey medium and coarse grained moderately weak rock fresh

Project: YORK

Title:

Hole Name : YP001

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

22.000 - 23.000 ( 1.000 )	SANDSTONE medium grey fine grained moderately weak rock fresh
23.000 - 29.000 ( 6.000 )	SANDSTONE medium grey medium and coarse grained siltstone coaly fragments moderately weak rock fresh common carbonaceous wisps

29.000 \*\*\* TOP OF U Seam

29.000 - 29.450 ( 0.450 )	COAL UNDIFF black fresh
29.450 - 29.650 ( 0.200 )	SILTSTONE medium grey moderately weak rock fresh
29.650 - 30.350 ( 0.700 )	COAL UNDIFF black fresh
30.350 - 30.600 ( 0.250 )	STONY COAL brownish black moderately strong rock fresh
30.600 - 30.700 ( 0.100 )	SILTSTONE medium grey moderately weak rock fresh
30.700 - 31.700 ( 1.000 )	COAL UNDIFF black fresh

```
31.700      *** BASE OF U Seam
```

\*\*\* GEOLOGICAL THICKNESS: 2.700 Metres \*\*\*

31.700 - 34.000 ( 2.300 )	MUDSTONE medium brownish grey weak rock fresh Water sample taken at 33m YP001-33 ~500G/hr
34.000 - 37.000 ( 3.000 )	SANDSTONE medium grey medium grained carbonaceous wisps moderately weak rock fresh
37.000 - 38.000 ( 1.000 )	SANDSTONE medium grey medium and coarse grained siltstone partings moderately weak rock fresh
38.000 - 46.500 ( 8.500 )	SANDSTONE medium grey medium and coarse grained minor siltstone moderately weak rock fresh rare carbonaceous wisps near base of unit
46.500 - 47.000 ( 0.500 )	SANDSTONE dark grey medium and coarse grained carbonaceous moderately strong rock fresh
47.000 - 49.000 ( 2.000 )	SANDSTONE medium grey medium grained coaly fragments moderately weak rock fresh Water sample taken at 49m YP001-49 ~100G/hr
49.000 - 51.000	

Project: YORK

Title:

Hole Name : YP001

```

*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
(    2.000    )    SANDSTONE dark greenish grey medium
                    grained carbonaceous moderately
                    strong rock fresh interbedded
51.000 - 59.000    SANDSTONE medium grey medium grained
(    8.000    )    minor siltstone near base of unit
                    moderately weak rock fresh sparse
                    secondary/accessory quartz grains
59.000 - 61.500    SANDSTONE medium grey fine to medium
(    2.500    )    grained siltstone wisps moderately
                    weak rock fresh
61.500 - 62.500    SILTSTONE medium grey moderately
(    1.000    )    weak rock fresh
62.500 - 65.000    SANDSTONE medium grey medium grained
(    2.500    )    moderately weak rock fresh
65.000 - 68.000    SANDSTONE medium grey fine to medium
(    3.000    )    grained moderately weak rock fresh
68.000 - 68.700    SANDSTONE medium grey medium grained
(    0.700    )    minor siltstone moderately weak rock
                    fresh
68.700 - 73.000    SANDSTONE medium grey medium grained
(    4.300    )    minor carbonaceous siltstone
                    moderately weak rock fresh minor
                    coaly fragments
73.000 - 74.000    SANDSTONE dark grey medium grained
(    1.000    )    carbonaceous fragments moderately
                    weak rock fresh
74.000 - 75.000    SANDSTONE medium grey fine to medium
(    1.000    )    grained moderately weak rock fresh
                    interbedded
75.000 - 77.000    SANDSTONE medium grey medium grained
(    2.000    )    coaly fragments moderately weak rock
                    fresh
77.000 - 82.000    SANDSTONE medium grey medium grained
(    5.000    )    moderately weak rock fresh
82.000 - 83.000    SANDSTONE medium brownish grey
(    1.000    )    medium grained moderately weak rock
                    fresh
83.000 - 84.000    SANDSTONE medium grey medium grained
(    1.000    )    carbonaceous wisps moderately weak
                    rock fresh
84.000 - 85.000    SANDSTONE medium grey fine to medium
(    1.000    )    grained siltstone partings
                    moderately weak rock fresh
85.000 - 90.200    SANDSTONE medium grey medium grained
(    5.200    )    minor coaly fragments moderately
                    weak rock fresh
90.200 - 91.500    SILTSTONE dark grey carbonaceous

```

Project: YORK

Title:

Hole Name : YP001

```

*****
TOP      BASE      LITHOLOGY      SAMPLE
*****
( 1.300 ) moderately strong rock fresh
91.500 - 95.000 SILTSTONE medium grey minor
( 3.500 ) carbonaceous wisps moderately weak
rock fresh
95.000 - 96.000 SANDSTONE medium grey very fine and
( 1.000 ) fine grained minor carbonaceous
wisps moderately weak rock fresh
96.000 - 97.300 SILTSTONE medium grey carbonaceous
( 1.300 ) wisps moderately strong rock fresh
97.300 - 97.650 CARBONACEOUS SILTSTONE dark blackish
( 0.350 ) grey moderately weak rock fresh
97.650 - 98.140 SILTSTONE medium grey moderately
( 0.490 ) weak rock fresh
98.140 - 98.450 STONY COAL dark brownish black fresh
( 0.310 )
98.450 - 101.150 SILTSTONE medium grey carbonaceous
( 2.700 ) wisps coaly moderately weak rock
fresh
101.150 - 101.600 COAL UNDIFF black fresh
( 0.450 )
101.600 - 103.000 SANDSTONE medium grey fine grained
( 1.400 ) carbonaceous wisps moderately weak
rock fresh
103.000 - 106.500 SILTSTONE medium grey carbonaceous
( 3.500 ) moderately weak rock fresh
Water sample taken at 105m YP001-105
~200G/hr
106.500 - 107.250 SANDSTONE medium grey fine grained
( 0.750 ) moderately weak rock fresh
107.250 - 107.720 COAL UNDIFF black fresh
( 0.470 )
107.720 - 110.000 SILTSTONE medium grey minor
( 2.280 ) carbonaceous wisps moderately weak
rock fresh
110.000 - 111.000 SANDSTONE medium grey fine grained
( 1.000 ) moderately weak rock fresh
111.000 - 113.400 SANDSTONE medium grey medium grained
( 2.400 ) carbonaceous wisps moderately weak
rock fresh
113.400 - 114.000 SANDSTONE medium brownish grey
( 0.600 ) medium grained moderately weak rock
fresh minor secondary/accessory
quartz in veins
114.000 - 117.500 SANDSTONE medium grey medium grained
( 3.500 ) carbonaceous wisps near top of unit
moderately weak rock fresh

```

Project: YORK

Title:

Hole Name : YP001

```

*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
117.500 - 118.420  SILTSTONE dark grey carbonaceous
(    0.920    )    moderately strong rock fresh
118.420 - 118.950  COAL UNDIFF black fresh
(    0.530    )
118.950 - 119.500  SILTSTONE dark grey moderately weak
(    0.550    )    rock fresh
119.500 - 120.000  SANDSTONE medium grey moderately
(    0.500    )    weak rock fresh
120.000 - 125.500  SILTSTONE dark grey carbonaceous
(    5.500    )    minor sandstone moderately strong
                    rock fresh laminated
125.500 - 126.000  SANDSTONE medium grey very fine
(    0.500    )    grained minor siltstone moderately
                    weak rock fresh common carbonaceous
                    wisps
126.000 - 127.300  SANDSTONE medium grey fine grained
(    1.300    )    carbonaceous wisps moderately weak
                    rock fresh
127.300 - 129.640  SANDSTONE medium brownish grey
(    2.340    )    medium grained moderately weak rock
                    fresh minor secondary/accessory
                    quartz on fracture planes
129.640 - 129.750  CARBONACEOUS SILTSTONE dark brownish
(    0.110    )    black moderately weak rock fresh
129.750 - 130.000  SANDSTONE medium grey medium grained
(    0.250    )    moderately weak rock fresh
130.000 - 131.200  SANDSTONE medium grey fine to medium
(    1.200    )    grained moderately weak rock fresh
131.200 - 132.500  SILTSTONE dark grey carbonaceous
(    1.300    )    throughout moderately strong rock
                    fresh
132.500 - 134.200  SANDSTONE dark grey very fine
(    1.700    )    grained carbonaceous moderately weak
                    rock fresh sparse
                    secondary/accessory quartz in veins
134.200 - 135.000  SANDSTONE medium grey fine to medium
(    0.800    )    grained carbonaceous wisps
                    moderately weak rock fresh
135.000 - 136.300  SANDSTONE dark grey very fine
(    1.300    )    grained carbonaceous weak rock fresh
136.300 - 139.600  SANDSTONE medium grey fine to medium
(    3.300    )    grained minor carbonaceous fragments
                    moderately weak rock fresh
139.600 - 140.800  SANDSTONE medium brownish grey fine
(    1.200    )    to medium grained carbonaceous wisps
                    moderately weak rock fresh

```

Project: YORK

Title:

Hole Name : YP001

```
*****
TOP          BASE          LITHOLOGY          SAMPLE
*****
140.800 - 141.200  SANDSTONE medium grey fine grained
(    0.400    )    moderately weak rock fresh
141.200 - 143.500  SILTSTONE dark grey minor sandstone
(    2.300    )    carbonaceous moderately strong rock
                    fresh interbedded
143.500 - 148.000  SANDSTONE light grey medium and
(    4.500    )    coarse grained quartzose moderately
                    strong rock fresh
                    Water sample taken at 146m YP001-146
                    ~200G/hr with salinity of 0.6ppm
148.000 - 150.000  SILTSTONE dark grey minor sandstone
(    2.000    )    moderately weak rock fresh
150.000          ***** TOTAL DEPTH *****
```