

Project: YORK

Title:

Hole Name : YP005LC

Date Start: 17-FEB-11 End date : 18-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 : 539585.24 5321020.84 400.86

DRILLING

Contractor : Spaulding Drillers
 Drill Type : Large Diameter Core Hole
 Drill Rig : Spaulding Drillers
 Drilled To Hole Size Core Size
 33 300mm Large Diameter
 (6-inch +)
 Core

GEOPHYSICAL

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

LITHOLOGICAL

Logger's Initials : Andrew Basson
 Date logged : 17-FEB-11,18-FEB-11
 Interval logged : 0 to 33

SEAM DETAILS

Seam Name	From	To
BHWE	9.00	9.00
UU1	16.18	18.21
UU2	20.74	23.77
UL1	26.70	26.88
UL2	28.33	28.68

Project: YORK

Title:

Hole Name : YP005LC

 TOP BASE LITHOLOGY SAMPLE

Hammer

0.000 - 1.000 SOIL dark brownish black sandy soft
 (1.000) extremely weathered
 1.000 - 2.800 SANDSTONE medium greyish brown fine
 (1.800) grained moderately weak rock
 extremely weathered
 2.800 - 3.800 CLAYSTONE brownish white weak rock
 (1.000) moderately weathered
 3.800 - 8.000 SANDSTONE medium yellowish brown
 (4.200) medium grained lithic minor
 doleritic moderately weak rock
 moderately weathered
 8.000 - 9.000 SANDSTONE light brownish grey medium
 (1.000) grained lithic moderately weak rock
 sharp wavy base

9.000 * Base Horizon of Weathering**

9.000 - 11.900 SANDSTONE light grey medium grained
 (2.900) moderately weak rock fresh
 11.900 - 12.200 CARBONACEOUS SILTSTONE dark brownish
 (0.300) black moderately strong rock fresh
 12.200 - 14.000 SANDSTONE medium greenish grey
 (1.800) medium grained carbonaceous
 fragments throughout moderately weak
 rock fresh rare secondary/accessory
 pyrite on fracture planes
 14.000 - 15.270 SANDSTONE light grey medium grained
 (1.270) lithic moderately weak rock fresh

Tungsten coring bit

15.270 - 16.180 SANDSTONE light grey medium grained
 (0.910) carbonaceous wisps throughout solid
 core moderately strong rock fresh
 rip up clasts joints calcite infill
 Run 1: 15.75-18.75. Rec 3.00m

16.180 * TOP OF**

16.180 - 16.300	COAL, dull <1% bright black broken	YPS012
(0.120)	core moderately strong rock fresh	
16.300 - 16.340	CLAYSTONE light brown carbonaceous	YPS012
(0.040)	near base of unit solid core weak rock fresh	
16.340 - 16.370	COAL, dull <1% bright black solid	YPS012
(0.030)	core moderately strong rock fresh	

Project: YORK

Title:

Hole Name : YP005LC

*****		*****	
TOP	BASE	LITHOLOGY	SAMPLE
*****		*****	
16.370 - 16.420		CARBONACEOUS SILTSTONE dark brownish	YPS012
(0.050)		black solid core moderately weak	
		rock fresh	
16.420 - 16.540		SILTSTONE medium grey broken core	YPS012
(0.120)		moderately weak rock fresh with	
		faults @45degree slickensides on	
		fracture	
16.540 - 16.580		CARBONACEOUS SILTSTONE dark brownish	YPS013
(0.040)		black solid core moderately weak	
		rock fresh	
16.580 - 17.020		COAL, dull <1% bright black solid	YPS013
(0.440)		core moderately strong rock fresh	
		rare secondary/accessory calcite in	
		veins	
17.020 - 17.140		CARBONACEOUS SILTSTONE dark greyish	YPS013
(0.120)		black solid core moderately weak	
		rock fresh	
17.140 - 17.390		STONY COAL dark brownish black solid	YPS014
(0.250)		core moderately weak rock fresh with	
		faults @45degree calcite infill	
17.390 - 17.500		COAL, dull <1% bright black solid	YPS014
(0.110)		core moderately strong rock fresh	
17.500 - 17.590		COAL, <10% bright black solid core	YPS014
(0.090)		moderately strong rock fresh common	
		secondary/accessory calcite in cleat	
17.590 - 17.770		COAL, dull <1% bright black solid	YPS014
(0.180)		core moderately strong rock fresh	
17.770 - 17.820		COAL, <10% bright black solid core	YPS014
(0.050)		moderately strong rock fresh common	
		secondary/accessory calcite in cleat	
17.820 - 17.940		COAL, dull <1% bright black solid	YPS014
(0.120)		core moderately strong rock fresh	
17.940 - 18.040		MUDSTONE medium creamy brown very	YPS015
(0.100)		broken core moderately weak rock	
		fresh joints	
18.040 - 18.140		CARBONACEOUS MUDSTONE medium greyish	YPS015
(0.100)		black broken core moderately weak	
		rock fresh joints	
18.140 - 18.210		COAL, dull <1% bright black broken	YPS015
(0.070)		core moderately strong rock fresh	

18.210 *** BASE OF

*** GEOLOGICAL THICKNESS: 2.030 Metres ***

18.210 - 18.430	SILTSTONE medium grey carbonaceous
(0.220)	near base of unit solid core
	moderately strong rock fresh
18.430 - 18.950	SANDSTONE light grey very fine

Project: YORK

Title:

Hole Name : YP005LC

 TOP BASE LITHOLOGY SAMPLE

(0.520) grained siltstone wisps throughout
 solid core moderately weak rock
 fresh with fractures
 18.950 - 19.080 SILTSTONE dark grey carbonaceous
 (0.130) lenses near base of unit solid core
 moderately weak rock fresh with
 faults @5degree slickensides on
 fracture
 19.080 - 19.160 COAL, dull <1% bright black
 (0.080) siltstone lenses near middle of unit
 broken core moderately strong rock
 fresh
 19.160 - 19.670 SILTSTONE medium grey carbonaceous
 (0.510) wisps throughout broken core
 moderately strong rock fresh with
 fractures carbonaceous fragments
 infilling fault discontinuities
 19.670 - 19.810 COAL, dull <1% bright black
 (0.140) siltstone lenses near middle of unit
 broken core moderately strong rock
 fresh
 19.810 - 19.970 CARBONACEOUS SILTSTONE dark greyish
 (0.160) black solid core moderately strong
 rock fresh
 19.970 - 20.670 SILTSTONE dark grey solid core
 (0.700) moderately strong rock fresh
 20.670 - 20.740 CARBONACEOUS SILTSTONE dark greyish
 (0.070) black solid core moderately strong
 rock fresh

20.740 *** TOP OF

20.740 - 20.970	COAL, dull <1% bright black broken	YPS016
(0.230)	core moderately strong rock fresh	
20.970 - 21.050	SILTSTONE medium grey carbonaceous	YPS017
(0.080)	clasts near base of unit broken core	
	weak rock fresh	
21.050 - 21.120	STONY COAL brownish black broken	YPS017
(0.070)	core moderately strong rock fresh	
21.120 - 21.220	COAL, dull <1% bright black solid	YPS018
(0.100)	core moderately strong rock fresh	
21.220 - 21.240	STONY COAL black solid core	YPS018
(0.020)	moderately strong rock fresh	
21.240 - 21.530	COAL, <10% bright black solid core	YPS018
(0.290)	moderately strong rock fresh common	
	secondary/accessory calcite in cleat	
21.530 - 21.620	COAL, dull <1% bright black solid	YPS018
	core moderately strong rock fresh	

Project: YORK

Title:

Hole Name : YP005LC

 TOP BASE LITHOLOGY SAMPLE

(0.090)		
21.620 - 21.650	CARBONACEOUS MUDSTONE dark greyish black solid core moderately strong rock fresh	YPS018
(0.030)		
21.650 - 21.750	SILTSTONE medium grey solid core moderately weak rock fresh with faults @45degree slickensides on fracture	YPS018
(0.100)		
21.750 - 21.830	SILTSTONE light grey broken core moderately weak rock fresh with faults @45degree slickensides on fracture	YPS019
(0.080)		
21.830 - 21.850	CARBONACEOUS SILTSTONE dark greyish black solid core moderately weak rock fresh	YPS019
(0.020)		
21.850 - 21.910	STONY COAL black solid core moderately strong rock fresh	YPS019
(0.060)		
21.910 - 22.070	COAL, dull <1% bright black solid core moderately strong rock fresh with faults	YPS019
(0.160)		
22.070 - 22.150	SILTSTONE dark grey very broken core moderately strong rock fresh with faults	YPS019
(0.080)		
22.150 - 22.220	SILTSTONE medium grey solid core moderately weak rock fresh	YPS019
(0.070)		
22.220 - 22.460	COAL, dull <1% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS020
(0.240)		
22.460 - 22.640	COAL, <10% bright black solid core moderately strong rock fresh common secondary/accessory calcite in cleat	YPS020
(0.180)		
22.640 - 22.690	COAL, dull <1% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS020
(0.050)		
22.690 - 22.740	CARBONACEOUS SILTSTONE dark greyish black broken core weak rock fresh	YPS020
(0.050)		
22.740 - 22.880	COAL, dull <1% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS021
(0.140)		
22.880 - 22.950	COAL, <10% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS021
(0.070)		
22.950 - 23.020	COAL, dull <1% bright black solid	YPS021

Project: YORK

Title:

Hole Name : YP005LC

 TOP BASE LITHOLOGY SAMPLE

(0.070)	core moderately strong rock fresh	
23.020 - 23.090	CARBONACEOUS SILTSTONE dark greyish black broken core moderately strong rock fresh with faults @45degree slickensides on fracture	YPS022
(0.070)		
23.090 - 23.180	COAL, dull <1% bright black solid core moderately strong rock fresh with faults @45degree slickensides on fracture common secondary/accessory calcite infilling fault discontinuities	YPS022
(0.090)		
23.180 - 23.240	COAL, <10% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS022
(0.060)		
23.240 - 23.410	COAL, dull <1% bright black solid core moderately strong rock fresh rare secondary/accessory calcite in cleat	YPS022
(0.170)		
23.410 - 23.470	CARBONACEOUS SILTSTONE dark greyish black very broken core moderately strong rock fresh with fractures	YPS023
(0.060)		
23.470 - 23.770	COAL, <10% bright black broken core moderately strong rock fresh common secondary/accessory calcite in cleat	YPS023
(0.300)		

23.770 *** BASE OF

*** GEOLOGICAL THICKNESS: 3.030 Metres ***

23.770 - 23.920	CARBONACEOUS SILTSTONE dark greyish black very broken core moderately strong rock fresh	YPS024
(0.150)		
23.920 - 24.130	SILTSTONE dark grey very broken core moderately strong rock fresh	
(0.210)		
24.130 - 24.520	SANDSTONE light grey fine grained broken core moderately strong rock fresh	
(0.390)		
24.520 - 24.590	SILTSTONE medium grey solid core moderately strong rock fresh	
(0.070)		
24.590 - 24.820	SANDSTONE light grey fine grained solid core moderately strong rock fresh	
(0.230)		
24.820 - 24.850	SILTSTONE medium grey solid core moderately strong rock fresh	
(0.030)		
24.850 - 25.080	SANDSTONE light grey very fine grained solid core moderately strong rock fresh	
(0.230)		
25.080 - 25.330	SILTSTONE medium grey solid core	

Project: YORK

Title:

Hole Name : YP005LC

 TOP BASE LITHOLOGY SAMPLE

(0.250) moderately strong rock fresh
 25.330 - 25.390 SANDSTONE medium grey very fine
 (0.060) grained solid core moderately strong
 rock fresh
 25.390 - 26.150 SILTSTONE medium grey solid core
 (0.760) moderately strong rock fresh
 26.150 - 26.350 SANDSTONE medium grey very fine
 (0.200) grained siltstone limonitic
 throughout broken core moderately
 strong rock fresh with fractures
 26.350 - 26.540 SILTSTONE dark grey solid core
 (0.190) moderately strong rock fresh
 26.540 - 26.700 SILTSTONE medium grey solid core
 (0.160) moderately strong rock fresh

26.700 *** TOP OF

26.700 - 26.770 COAL, dull <1% bright black broken
 (0.070) core moderately strong rock fresh

Hammer

26.770 - 26.880 COAL UNDIFF black moderately strong
 (0.110) rock fresh

26.880 *** BASE OF

*** GEOLOGICAL THICKNESS: .180 Metres ***

26.880 - 28.335 SILTSTONE medium grey coaly
 (1.455) fragments throughout moderately weak
 rock fresh

28.335 *** TOP OF

28.335 - 28.680 COAL UNDIFF
 (0.345)

28.680 *** BASE OF

*** GEOLOGICAL THICKNESS: .345 Metres ***

28.680 - 33.000 SILTSTONE medium grey coaly
 (4.320) fragments throughout moderately weak
 rock fresh

33.000 ***** TOTAL DEPTH *****