

HOLE NUMBER : CA 119
 DATA SOURCE : Marathon Pet. Aust, Ltd
 LOGGER : Sharon Carr
 Date commenced : 1er 0 9
 Date completed : 1er 0 9

LOCATION:

NORTHING : 5184609.00
 EASTING : 490772.00
 ELEVATION :

DRILLING:

CONTRACTOR :
 DRILL TYPE :
 HOLE SIZE :
 CORE SIZE :
 TOTAL DEPTH :

GEOPHYSICAL:

CONTRACTOR :
 PROBE DEPTH :
 LOGS RUN :

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 FROM TO LITHOLOGY

***** CHIP DESCRIPTION *****

BLADES	
0.00 - 1.00	CLAY, yellowish-tan, highly weathered.
1.00 - 2.00	50% CLAY, yellowish-tan, highly weathered. 35% MUDSTONE, dark blackish-grey, carbonaceous, highly weathered. 15% COAL, sooty, highly weathered.
2.00 - 3.00	40% MUDSTONE, blackish-grey, highly weathered. 30% CLAY, brownish-grey, highly weathered. 30% COAL, sooty, highly weathered.
3.00 - 4.00	60% CARBONACEOUS MUDSTONE, blackish-grey, moderately weathered. 40% CLAY, white, highly weathered.
4.00 - 5.00	50% CARBONACEOUS MUDSTONE, dark blackish-grey, moderately weathered. 30% COAL, sooty, highly weathered. 20% CLAY, brownish-grey, highly weathered.
5.00 - 6.00	50% MUDSTONE, light grey, slightly weathered. 50% SILTSTONE, light grey, slightly weathered.
6.00 - 24.00	MUDSTONE, grey, slightly weathered.
24.00 - 25.00	80% MUDSTONE, grey, slightly weathered. 20% CARBONACEOUS MUDSTONE, dark blackish-grey, moderately weathered.
25.00 - 26.00	50% CARBONACEOUS MUDSTONE, dark blackish-grey, moderately weathered. 50% COAL, highly weathered.
26.00 - 27.00	40% CLAY, brownish-grey, highly weathered. 40% COAL, highly weathered. 20% CARBONACEOUS MUDSTONE, dark blackish-grey, moderately weathered.
27.00 - 28.00	60% COAL, moderately weathered. 40% CARBONACEOUS MUDSTONE, dark blackish-grey, moderately weathered.
28.00 - 31.00	MUDSTONE, grey.
	***** BASE OF MODERATE WEATHERING *****
31.00 - 32.00	SANDSTONE, grey, very fine grained, argillaceous, slightly weathered.

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 FROM TO LITHOLOGY

- 32.00 - 35.00 MUDSTONE, grey, slightly weathered.
- 35.00 - 38.00 SILTSTONE, grey, slightly weathered.
- 38.00 - 43.00 SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.)
fining upwards, slightly weathered.
- ***** BASE OF WEATHERING *****
- 43.00 - 59.00 SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.)
argillaceous matrix, unweathered.
- 59.00 - 61.00 50% SANDSTONE, light grey, fine grained.
50% MUDSTONE, grey, slightly carbonaceous with rare
coaly fragments.
- 61.00 - 62.00 SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.) sub-angular
argillaceous matrix.
- 62.00 - 63.00 85% SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.) sub-angular
argillaceous matrix.
15% COAL, <10% BRIGHT.
- 63.00 - 64.00 20% SANDSTONE, light grey, very fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.) sub-angular
argillaceous matrix.
10% MUDSTONE, grey.
35% COAL, <10% BRIGHT.
35% COAL, UP TO 1% BRIGHT.
- 64.00 - 65.00 60% COAL, <10% BRIGHT.
40% SANDSTONE, light grey,
feldspatho-lithic (<80% Qtz, felds)rf.) sub-angular
argillaceous matrix.
- 65.00 - 67.00 SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.)
argillaceous matrix.
- 67.00 - 69.00 MUDSTONE, dark grey, slightly carbonaceous.
- 69.00 - 71.00 MUDSTONE, grey.
- 71.00 - 73.00 SANDSTONE, light grey, fine grained,
feldspatho-lithic (<80% Qtz, felds)rf.)
argillaceous matrix.

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 FROM TO LITHOLOGY

73.00 - 74.00 80% SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.
 20% MUDSTONE, grey.

74.00 - 78.00 SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.

78.00 - 79.00 20% SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.
 40% CARBONACEOUS MUDSTONE, blackish-grey.
 40% MUDSTONE, brownish-grey.

79.00 - 80.00 50% MUDSTONE, grey.
 50% SILTSTONE, grey.

80.00 - 81.00 65% COAL, <10% BRIGHT.
 35% MUDSTONE, grey.

81.00 - 82.00 50% SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.
 25% COAL, <10% BRIGHT.
 25% MUDSTONE, grey.

82.00 - 83.00 85% SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.
 25% MUDSTONE, grey.

83.00 - 85.00 SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.

85.00 - 86.00 50% SANDSTONE, light grey, fine grained,
 feldspatho-lithic (<80% Qtz, felds>rf.)
 argillaceous matrix.
 35% MUDSTONE, grey.
 15% COAL, <10% BRIGHT.

86.00 - 89.00 SANDSTONE.

89.00 - 90.00 DOLERITE, dark grey, fine grained, hard.

HAMMER

90.00 - 92.00 40% MUDSTONE, dark grey, carbonaceous.
 30% MUDSTONE, grey.
 30% SANDSTONE, grey, very fine grained.

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FROM TO LITHOLOGY

92.00 - 99.00 DOLERITE, hard. Porphyrific

***** DESCRIPTION *****

0.00 - 0.00 , -abundant calcite disseminated, abundant zeolite.
25% SANDSTONE, light grey, very fine grained, hard.
15% MUDSTONE, dark grey, carbonaceous.

***** CHIP DESCRIPTION *****

HAMMER
101.00 - 104.00 SANDSTONE, light grey, fine grained,
quartzose (>90% quartz)
feldspathic (predom. feldspar fragments) hard.

104.00 - 107.00 60% SANDSTONE.
40% MUDSTONE, dark grey, carbonaceous hard.

107.00 - 110.00 50% SANDSTONE, light grey, fine grained,
quartzose (>90% quartz)
feldspathic (predom. feldspar fragments)
argillaceous matrix.
30% SILTSTONE, grey.
20% MUDSTONE, grey.

110.00 - 113.00 70% SANDSTONE, light grey.
30% MUDSTONE, grey.

113.00 - 117.00 DOLERITE, dark greenish-black, very fine grained, hard.
Aphanitic and holohyaline

117.00 - 120.00 50% MUDSTONE, grey.
20% CARBONACEOUS MUDSTONE, dark grey.
30% SANDSTONE, light grey, very fine grained.

120.00 - 122.00 40% SANDSTONE, light grey, fine grained.
40% DOLERITE, green.
20% MUDSTONE, grey.

BLADES
122.00 - 130.00 NO SAMPLE RETURN. Extremely hard rock, probably
Dolerite. bad cavins caused sampleContamination.

130.00 ***** TOTAL DEPTH *****