

039

585040

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HOLE NUMBER : CA 118  
DATA SOURCE : Marathon Pet. Aust, Ltd  
LOGGER : Sharon Carr  
Date commenced : 7er 0 9  
Date completed : 7er 0 9

LOCATION:

NORTHING : 5179031.00  
EASTING : 489463.00  
ELEVATION :

DRILLING:

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

GEOPHYSICAL:

CONTRACTOR :  
PROBE DEPTH :  
LOGS RUN :

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FROM TO LITHOLOGY  
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\*\*\*\*\* CHIP DESCRIPTION \*\*\*\*\*

HAMMER

- 0.00 - 20.00 NO SAMPLE RETURN. Dolerite scree, no sample return  
Due to difficult drillings and Problems with casings
- 20.00 - 50.00 Dolerite scree  
70% DOLERITE, dark green, hard, slightly weathered.  
10% CLAY, tan, highly weathered, intense brown iron oxide staining.  
10% CLAY, pale green, highly weathered, intense clay staining.  
10% SANDSTONE, brownish-yellow, medium grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments) hard, moderately weathered, intense brown iron oxide staining.
- 50.00 - 51.00 70% COAL, <10% BRIGHT, unweathered.  
20% CARBONACEOUS MUDSTONE, black, unweathered.  
10% SANDSTONE, grey, and mudstone, unweathered.
- 51.00 - 52.00 5% COAL, <10% BRIGHT, unweathered.  
95% DOLERITE, dark green, hard, unweathered, slight brown iron oxide staining, common calcite disseminated, common zeolite.
- 52.00 - 66.00 DOLERITE, dark green, fine grained.  
Sill, porphyritic and granitic
- 66.00 - 67.00 -hard, slight brown iron oxide staining.  
45% MUDSTONE, dark blackish-grey, carbonaceous.  
5% COAL, <10% BRIGHT.
- 67.00 - 68.00 SILTSTONE, blackish-grey, slightly carbonaceous.
- 68.00 - 70.00 40% MUDSTONE, light grey.  
60% SANDSTONE, light grey, fine grained, quartzose (>90% quartz) feldspatho-lithic (<80% Qtz, felds)rf.) sub-rounded moderately sorted.
- 70.00 - 73.00 SANDSTONE, light grey, fine grained, quartzose (>90% quartz) feldspatho-lithic (<80% Qtz, felds)rf.) argillaceous matrix, fining upwards to:
- 73.00 - 74.00 50% MUDSTONE.  
50% SANDSTONE, light grey, fine grained, quartzose (>90% quartz) feldspatho-lithic (<80% Qtz, felds)rf.) argillaceous matrix.

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74.00 - 80.00 20% SANDSTONE, light greenish-grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix; slight clay stainings.  
80% SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

80.00 - 81.00 SANDSTONE, mottled grey, carbonaceous.

81.00 - 82.00 SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

82.00 - 83.00 60% MUDSTONE, grey.  
40% SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

83.00 - 84.00 SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

84.00 - 85.00 SANDSTONE, light grey, fine grained, carbonaceous.

85.00 - 88.00 SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

88.00 - 90.00 70% MUDSTONE, grey.  
30% SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix; slight clay stainings.

90.00 - 91.00 50% MUDSTONE, grey.  
50% SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

91.00 - 100.00 SANDSTONE, light grey, fine grained,  
quartzose (>90% quartz)  
feldspatho-lithic (<80% qtz, felds>rf.)  
argillaceous matrix.

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 FROM TO LITHOLOGY  
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100.00 - 101.00 80% SANDSTONE, light grey, fine grained, carbonaceous.  
 20% MUDSTONE, grey.

101.00 - 110.00 SANDSTONE, light grey, fine grained,  
 quartzose (>90% quartz)  
 feldspathic (predom. feldspar fragments) sub-rounded.  
 , moderately sorted argillaceous matrix.

110.00 - 111.00 60% SANDSTONE, light grey, very fine grained,  
 quartzose (>90% quartz)  
 feldspathic (predom. feldspar fragments).  
 40% SILTSTONE.

111.00 - 113.00 DOLERITE, pyrite.

113.00 - 114.00 40% DOLERITE.  
 60% SANDSTONE, light grey, fine grained,  
 quartzose (>90% quartz)  
 feldspatho-lithic (<80% atz, felds>rf.).

114.00 - 116.00 70% SANDSTONE, light grey, fine grained,  
 quartzose (>90% quartz)  
 feldspatho-lithic (<80% atz, felds>rf.).  
 30% MUDSTONE.

116.00 - 117.00 50% SANDSTONE, grey, very fine grained, argillaceous.  
 20% MUDSTONE, grey, carbonaceous.  
 30% COAL, <10% BRIGHT.

117.00 - 118.00 50% MUDSTONE, grey.  
 30% SILTSTONE, grey.  
 20% COAL.

118.00 - 119.00 MUDSTONE, dark grey, with some coaly fragments.

119.00 - 122.00 40% SANDSTONE, light grey, fine grained,  
 quartzose (>90% quartz)  
 feldspatho-lithic (<80% atz, felds>rf.) sub-angular.  
 30% SILTSTONE, light grey.  
 30% MUDSTONE, grey.

122.00 - 129.00 SANDSTONE, light grey, fine to medium grained,  
 quartzose (>90% quartz)  
 litho-feldspathic (<80% atz, rf>felds) sub-angular  
 moderately sorted.

129.00 - 130.00 70% SANDSTONE, light grey, medium grained.  
 30% MUDSTONE, dark grey.

130.00 - 134.00 SANDSTONE, light grey, medium grained,  
 quartzose (>90% quartz)  
 feldspathic (predom. feldspar fragments)  
 argillaceous moderately sorted sub-angular, slight

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 FROM TO LITHOLOGY  
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134.00 - 135.00	70% SANDSTONE. 30% MUDSTONE.
135.00 - 137.00	SANDSTONE, light grey, medium grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments).
137.00 - 138.00	85% SANDSTONE, light grey, medium grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments). 15% MUDSTONE, dark grey, medium grained, slightly carbonaceous.
138.00 - 140.00	SANDSTONE, light grey, medium grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments).
140.00 - 142.00	85% SANDSTONE, light grey, medium grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments). 15% MUDSTONE, grey.
142.00 - 144.00	80% SANDSTONE, light grey, fine grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments). 20% MUDSTONE, black, slightly carbonaceous.
144.00 - 151.00	SANDSTONE, light grey, fine to medium grained, fining upwards.
151.00 - 152.00	90% SANDSTONE, light grey, fine to medium grained, slightly carbonaceous. 10% MUDSTONE, grey.
152.00 - 156.00	SANDSTONE, light grey, fine grained, quartzose (>90% quartz) feldspathic (predom. feldspar fragments).
156.00 - 157.00	50% SANDSTONE, quartzose (>90% quartz) feldspathic (predom. feldspar fragments). 25% SANDSTONE, brownish-black, carbonaceous. 25% COAL, 10 - 40% BRIGHT.
157.00 - 158.00	50% CARBONACEOUS MUDSTONE, black. 30% COAL, 10 - 40% BRIGHT. 20% MUDSTONE, grey.
158.00 - 189.00	SANDSTONE, black, fine grained, carbonaceous.
189.00 - 162.00	SANDSTONE, light grey, fine grained, argillaceous.

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 FROM TO LITHOLOGY  
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162.00 - 164.00 NO SAMPLE RETURN. Lost air circulation. couldn't set  
 Blades through dolerite scree which  
 Caved in whenever rods were pulled.

164.00 \*\*\*\*\* TOTAL DEPTH \*\*\*\*\*