

1. INTRODUCTION

SAGASCO Resources requested a preliminary sedimentological and fluorescence log of King #1, from the Bass Basin. At the time of logging the core was frozen and had not been slabbed. Only the outer surface where the drilling mud had been cleaned off the core could be seen. The primary aims of the sedimentological log were to ascertain grain size and lithological variations.

The following core intervals were studied:

Core	Top (m)	Bottom (m)
#1	1397.0	1400.5
#2	1402.0	1407.5
#3	1423.5	1432.9
#4	1434.0	1439.0

Core was logged at a scale of 1:10 (1m=10cm) and the results are presented below. Grain size was assessed by comparing fragments of core with a grain size comparator under a binocular microscope. Fluorescence log descriptions were undertaken in a darkened shed with fluorescent lighting. To establish the cut, fragments of core were placed in a petri dish and studied in a fluoroscope.

Abbreviations used on the sedimentological and fluorescence logs are listed below:

M	=	mud	F1	=	fluorescence
S	=	silt	mod	=	moderately
VF	=	very fine sand	grn	=	green
F	=	fine sand			
M	=	medium sand			
C	=	coarse sand			
VC	=	very coarse sand			
G	=	granules			
P	=	poor sorting			
M	=	moderate sorting			
W	=	well sorted			

Lithology Key

	mudstone		siltstone
	silty mudstone		sandstone
	muddy siltstone		coal