

PRELIMINARY VISUAL ESTIMATES OF LITHOLOGY, TEXTURE AND MINERALOGY FOR KING #1

Depth (m) Core plug	1426.70 17	1430.00 23	1431.23 24	1431.73 26	1432.15 27
Lithology	quartz-arenite	siltstone	sandy siltstone	subarkose	quartz-arenite
Grain size	v. fine/ c. sand bimodal	m.silt	m.silt/ c. sand bimodal	fine	v. fine/ m. sand bimodal
Sorting	poor	moderate	v. poor	moderate	v. poor
Structures	bedding	laminae X-bedding burrows	bedding ?bioturb	?laminae	laminae X-bedding
Framework grains					
Quartz	64	51	70	58	68
Feldspar	tr	-	1	3	2
Lithics	-	-	tr	tr	tr
Mica	tr	5	4	1	1
Glaucony	?	-	-	tr	?
Accessory	2	tr	tr	tr	tr
Matrix					
Clay	tr k, i	10	2 k, i	2	-
Opaque material	3	7	6	1	tr
Authigenic minerals & cements					
Quartz	-	tr	-	-	-
Carbonate	tr	6	tr	7	3
Pyrite	-	-	tr	?	-
Kaolin	tr	-	tr	tr	-
Iron oxide	-	tr	tr	-	tr
Chlorite	-	-	-	2	-
Porosity					
Intergranular	25	5	6	15	25
Dissolution	5	12	8	10	-
Fractures	-	3	2	-	-

c=coarse, m=medium, v=very, mod=moderate, bioturb=bioturbated, tr=trace
 K=kaolinite, i=illite, c=clinochlore (chlorite) based on XRD data