Sidewall Core Description

Well: Magnetic 1

General Data			
Date:	**16/05/2015**	**Rig:**	**EWE 106**
Geologist:	**Anthony Drake**	**Company:**	QGC
Tool type:	**MSCT**	**Run no:**	**Suite 2, Runs 4**

Core no.	Depth MDRT (m)	Formation	Run No.:	Recovery (cm)	Lithology Description/Comments
MSCT1	3040.70	Timbury Hills Formation	4	5	META-SANDSTONE: light grey to light greenish grey, re-crystalized quartz, hard to very hard, strong siliceous cement, trace to minor siliceous matrix, trace medium to coarse lithics, trace pyrite, very poor to nil visible porosity, no fluorescence.
MSCT2	3036.00	Timbury Hills Formation	4	5	META-SANDSTONE: light grey to light greenish grey, re-crystalized quartz, hard to very hard, strong siliceous cement, trace to minor siliceous matrix, trace medium lithics, rare pyrite, very poor to nil visible porosity, no fluorescence.
MSCT3	3031.90	Timbury Hills Formation	4	5	META-SANDSTONE: light grey to light greenish grey, re-crystalized quartz, hard to very hard, strong siliceous cement, trace to minor siliceous matrix, trace medium lithics, rare pyrite, very poor to nil visible porosity, no fluorescence.
MSCT4	3020.50	Timbury Hills Formation	4	4 1/2	META-SANDSTONE: light grey to light greenish grey, re-crystalized quartz, hard to very hard, strong siliceous cement, trace to minor siliceous matrix, trace META-SILTSTONE sub rounded to rounded very coarse to pebble, trace medium lithics, rare pyrite, very poor to nil visible porosity, no fluorescence. Fractured.
MSCT5	3017.30	Timbury Hills Formation	4	5	META-SANDSTONE: light grey to light greenish grey, re-crystalized sub angular quartz, hard to very hard, strong siliceous cement, trace to minor siliceous matrix, trace to minor META-SILTSTONE sub rounded to sub angular very coarse to pebble, rare medium lithics, very poor to nil visible porosity, no fluorescence.
MSCT6	3013.30	Lorelle Sandstone	4	5	META-SANDSTONE: light grey to light greenish grey, re-crystalized sub angular quartz, hard to very hard, strong siliceous cement, trace to minor siliceous/argillaceous matrix, minor to common SILTSTONE sub rounded to sub angular very coarse to pebble, trace pyrite, rare fine to coarse lithics, very poor to nil visible porosity, no fluorescence.

Core no.	Depth MDRT (m)	Formation	Run No.:	Recovery (cm)	Lithology Description/Comments
MSCT7	3011.30	Lorelle Sandstone	4	5	CONGLOMERATIC SANDSTONE: very light grey to light greenish grey, commonly re-crystalized sub angular quartz grading to META-SANDSTONE, hard to very hard, strong siliceous cement, trace to minor siliceous/argillaceous matrix, minor medium grey SILTSTONE sub rounded to angular very coarse to pebble, minor to common medium to coarse greyish grey lithics, very poor to nil visible porosity, no fluorescence.
MSCT8	2994.70	Lorelle Sandstone	4	5	CONGLOMERATIC SANDSTONE: very light grey to light greenish grey, commonly re-crystalized sub angular quartz grading to META-SANDSTONE, hard to very hard, strong siliceous cement, trace to minor siliceous/argillaceous matrix, minor medium grey SILTSTONE sub rounded to angular very coarse to pebble, common medium to pebble greyish grey lithics, very poor to nil visible porosity, no fluorescence.
MSCT9	2950.10	Lorelle Sandstone	4	5	SANDSTONE: very light grey to light brownish grey, very fine to very coarse clear to translucent quartz grains, sub angular to sub rounded, hard to very hard, poorly sorted, strong siliceous cement, common very light grey to light grey argillaceous matrix, trace medium grey lithics, poor to very poor visible porosity, no fluorescence.
MSCT10	2940.80	Overston Sandstone	4	5	SANDSTONE: very light grey to light brownish grey, very fine to coarse predominantly transparent to translucent quartz grains, sub angular to sub rounded, hard, poorly to moderately sorted, moderately strong siliceous cement, common very light grey argillaceous matrix, trace medium grey to dark grey medium to coarse lithics, poor to very poor visible porosity, no fluorescence.
MSCT11	2933.80	Overston Sandstone	4	5	SANDSTONE: medium light grey to medium grey, very fine to medium grained, occasionally coarse quartz, sub angular to sub rounded, hard, moderately sorted, moderately strong siliceous cement, common medium grey argillaceous matrix, trace medium grey to dark grey lithics, poor to very poor visible porosity, no fluorescence.
MSCT12	2931.40	Overston Sandstone	4	5	SANDSTONE: medium light grey to medium grey, very fine to medium grained, trace coarse, sub angular to sub rounded, hard, moderately to poorly sorted, moderately strong siliceous cement, trace light brownish grey argillaceous matrix, trace medium grey to dark grey lithics, poor to very poor visible porosity, no fluorescence.
MSCT13	2927.00	Overston Sandstone	4	5	SANDSTONE: very light grey to light brownish grey, very fine to very coarse grained, sub angular to sub rounded, hard, moderately to poorly sorted, moderately strong siliceous cement, trace very light grey to very light brownish grey argillaceous matrix, trace medium grey to dark grey lithics, trace carbonaceous fragments, poor visible porosity, no fluorescence.
MSCT14	2926.40	Overston Sandstone	4	5	ARENACEOUS SILTSTONE: medium grey to medium dark grey, arenaceous grading to very fine SANDSTONE, trace lithics, trace mica, trace pyrite, moderately hard to hard.

Core no.	Depth MDRT (m)	Formation	Run No.:	Recovery (cm)	Lithology Description/Comments
MSCT15	2914.80	Overston Sandstone	4	5	ARENACEOUS SILTSTONE: medium grey to medium dark grey, arenaceous grading to very fine SANDSTONE, trace lithics, trace mica, trace pyrite, moderately hard to hard.
MSCT16	2892.70	Overston Sandstone	4	5	SANDSTONE: very light grey to light greenish grey, transparent to translucent, mottled, fine to granule, sub rounded to sub angular, hard, poorly sorted, moderately strong cement, minor very light grey to very light brownish grey argillaceous matrix, trace lithics, poor to fair visible porosity, no fluorescence.
MSCT17	2892.20	Overston Sandstone	4	5	CONGLOMERATIC SANDSTONE: light grey to medium grey, very fine to medium grained, common granules and pebbles, poorly sorted, hard, moderately strong cement, argillaceous in parts, very poor visible porosity, no fluorescence.
MSCT18	2866.50	Lower Tinowon Sandstone	4	5	SANDSTONE: very light grey to light brownish grey, very fine to very coarse grained, rare granule, sub angular to sub rounded, moderately hard to hard, moderately to poorly sorted, moderately strong cement, minor very light grey to very light brownish grey argillaceous matrix, trace lithics, poor to fair visible porosity, trace speckled dull yellow fluorescence.
MSCT19	2864.00	Lower Tinowon Sandstone	4	4 1/2	SANDSTONE: very light grey to light brownish grey, very fine to very coarse grained, rare granule, sub angular to sub rounded, moderately hard, moderately to poorly sorted, moderately strong cement, minor very light grey to very light brownish grey argillaceous matrix, trace lithics, poor to fair visible porosity, trace speckled very dull yellow fluorescence.
MSCT20	2816.60	Upper Tinowon Sandstone	4	5	SANDSTONE: light grey to light brownish grey, very fine to medium grained, sub angular to sub rounded, moderately hard, moderately to well sorted, moderately strong cement, trace light grey argillaceous matrix, trace lithics, poor to fair visible porosity, minor speckled dull yellow fluorescence. SILTSTONE: medium grey to medium dark grey, slightly arenaceous grading to very fine SANDSTONE, moderately hard to hard.
MSCT21	2808.20	Upper Tinowon Sandstone	4	5	SILTSTONE: medium grey to medium dark grey, arenaceous, minor dark grey argillaceous clasts, moderately hard.
MSCT22	2801.30	Upper Tinowon Sandstone	4	5	SANDSTONE: light grey to light brownish grey, very fine to medium grained, sub angular to sub rounded, moderately hard, moderately to well sorted, moderately strong cement, trace light grey argillaceous matrix, trace lithics, poor to fair visible porosity, no fluorescence.

Core no.	Depth MDRT (m)	Formation	Run No.:	Recovery (cm)	Lithology Description/Comments
MSCT23	2800.20	Upper Tinowon Sandstone	4	5	SANDSTONE: light grey to light brownish grey, very fine to medium grained, sub angular to sub rounded, moderately hard, moderately to well sorted, moderately strong cement, minor light brownish grey argillaceous matrix, trace lithics, poor to fair visible porosity, no fluorescence.
MSCT24	2794.10	Upper Tinowon Sandstone	4	5	SANDSTONE: very light grey to very light brownish grey, very fine to medium grained, sub angular to sub rounded, moderately hard, well sorted, moderately strong cement, minor very light brownish grey argillaceous matrix, trace lithics, poor to fair visible porosity, no fluorescence.
MSCT25	2792.70	Upper Tinowon Sandstone	4	5	SILTSTONE: medium grey to medium dark grey, arenaceous in parts, common calcareous fragments, fossiliferous, moderately hard to hard.
MSCT26	2790.80	Upper Tinowon Sandstone	4	5	SILTSTONE: medium grey to medium dark grey, arenaceous, common calcareous fragments, fossiliferous, moderately hard to hard.
MSCT27	2748.00	Black Alley Shale	4	5	SILTSTONE: light grey, light brownish grey, siliceous, lutaceous in parts, laminated, carbonaceous fracture infill, trace carbonaceous specks, hard.
MSCT28	2740.40	Black Alley Shale	4	-	not recovered
MSCT29	2734.60	Kianga Formation	4	5	SANDSTONE: light grey to light brownish grey, very fine to medium grained, sub angular to sub rounded, moderately hard to hard, moderately to well sorted, moderately strong cement, trace very light grey argillaceous matrix, trace pyrite, laminated in parts, poor to fair visible porosity, no fluorescence.
MSCT30	2733.70	Kianga Formation	4	-	not recovered
MSCT31	2732.80	Kianga Formation	4	-	not recovered