

## Thylacine-2 Core Description

**Core-1 (2150 – 2203.5 mMDRT): cut 53.5 m, recovered 49.87m (93%)**

**Core-2 (2203.5 – 2258.5 mMDRT): cut 55.0 m, recovered 53.9m (98%)**

**Core-3 (2258.5 – 2316 mMDRT): cut 57.5 m, recovered 56.05m (97.5%)**

Core No	Depth mMDRT	Lithology
1	2150 (top of core)	<b>SANDSTONE (100%)</b> : light olive grey, friable, very fine to fine minor medium grained quartz, subangular to subrounded, moderate sphericity, moderate sorted, minor siliceous cement, trace calcareous and dolomitic cement, common light grey argillaceous matrix, minor dark grey siltstone lithics, trace glauconite, trace chlorite, trace mica, trace disseminated pyrite, 7% visual porosity, no direct fluorescence, slight hydrocarbon odour
1	2153.59	<b>SILTSTONE (70%)</b> : dark olive grey, hard, blocky, minor to common irregularly scattered fine grain size feldspar, quartz and biotite, trace calcite cement, minor argillaceous matrix, rare pyrite, trace glauconite. Interlaminated with Silty Sandstone. <b>SILTY SANDSTONE (30%)</b> : olive grey, hard, very fine to medium predominantly fine grained, subangular to subround quartz and minor subangular feldspar, trace calcite cement, trace coarse mica, trace pyrite, trace glauconite, no visible porosity, no fluorescence, slight hydrocarbon odour
1	2162.79	<b>ARENACEOUS SILTSTONE (100%)</b> : medium to dark grey, moderately hard, common to abundant very fine quartz grains, trace partially altered feldspars, trace micro mica and mica, trace carbonaceous detritus, trace glauconite, no fluorescence., slight hydrocarbon odour
1	2172.0	<b>ARENACEOUS SILTSTONE (100%)</b> : medium to dark grey, moderately hard, common to abundant very fine quartz grains, minor partially altered feldspars, trace micro mica and mica, trace carbonaceous detritus and microlaminae, trace glauconite, trace disseminated pyrite, grading to <b>SILTY SANDSTONE</b> , tight visual porosity, no fluorescence.
1	2181.1	<b>SANDSTONE (100%)</b> : light grey, friable, very fine to fine minor medium trace coarse grained quartz, subangular, moderate sphericity, moderately sorted, minor siliceous cement, minor very light grey argillaceous matrix, minor partially altered feldspars, trace carbonaceous detritus and microlaminae, trace glauconite, trace chlorite, trace red brown lithics, trace dark grey siltstone? Lithics, 7% visual porosity, no fluorescence, slight hydrocarbon odour
1	2190.22	<b>SANDSTONE (100%)</b> : light grey, friable, very fine to fine minor medium grained quartz, subangular, moderate sphericity, moderately to well sorted, minor siliceous cement, trace calcareous / dolomitic cement, minor very light grey argillaceous matrix, common partially altered feldspars, trace carbonaceous detritus and microlaminae, trace glauconite, trace chlorite, trace red brown lithics, trace dark grey siltstone? Lithics, trace mica, 10% visual porosity, no fluorescence, slight hydrocarbon odour
1	2199.42	<b>SANDSTONE (100%)</b> : light grey, friable, very fine to fine minor medium and trace coarse grained quartz, subangular, moderate sphericity, moderately sorted, minor siliceous cement, trace calcareous / dolomitic cement, minor very light grey argillaceous matrix, common partially altered feldspars, trace carbonaceous detritus and microlaminae, trace glauconite, trace chlorite, trace red brown lithics, trace dark grey siltstone? Lithics, trace mica, 7% visual porosity, no fluorescence, slight hydrocarbon odour.
1	2199.87 (bottom of core)	<b>SANDSTONE (100%)</b> : light olive grey, moderately hard, slightly friable, massive, very fine to medium grained, predominantly medium grained, subangular to rarely subround, slightly spherical, moderately sorted quartz grains, common to abundant white to very pale orange subangular feldspar grains, minor patchy calcite and dolomite cements, rare patchy silica cement, quartz overgrowths, minor argillaceous matrix, minor 5mm blebs of brownish grey quartz silt, rare dark grey 1mm to 6mm thick dark grey siltstone laminae, rare lithic grains, trace chlorite, trace glauconite, trace mica, trace carbonaceous material. Grades to Feldspathic Sandstone 8% patchy vuggy and intergranular porosity, slight hydrocarbon odour, no fluorescence.
2	2203.5 (top of core)	<b>SANDSTONE (100%)</b> : very similar to 2199.87m, light grey, light olive grey, moderately hard, slightly friable, massive, very fine to medium grained, predominantly medium grained, subangular, slightly spherical, moderately sorted quartz grains, abundant white to very pale orange subangular feldspar grains, minor patchy calcite and dolomite cements, rare patchy silica cement, quartz overgrowths, minor argillaceous matrix, minor 5mm blebs of brownish grey quartz silt, rare dark grey 1mm to 6mm thick dark grey siltstone laminae, rare lithic grains, rare fine opaques including tourmaline, trace chlorite, trace glauconite, trace mica, trace carbonaceous material. Grades to Feldspathic Sandstone 10% patchy vuggy and intergranular porosity, some vugs have a light creamy orange lining, slight hydrocarbon odour, no fluorescence.
2	2211.07	<b>SANDSTONE (100%)</b> : very similar to 2199.87m, light grey, friable, massive, very fine to coarse grained, coarsening downwards, predominantly medium grained, subangular, slightly spherical, moderately sorted quartz grains, abundant white to very pale orange and white subangular partially weathered feldspar grains, minor patchy calcite and dolomite cements, rare patchy silica cement, quartz overgrowths, minor argillaceous matrix, minor 2mm to 5mm blebs of grey quartz silt, rare dark grey 1mm to 6mm thick dark grey siltstone laminae, rare lithic grains, rare fine opaques including tourmaline, trace chlorite, trace glauconite. Grades to Feldspathic Sandstone 10% patchy vuggy and intergranular porosity, no hydrocarbon odour, no fluorescence.

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**Core-1 (2150 – 2203.5 mMDRT): cut 53.5 m, recovered 49.87m (93%)**

**Core-2 (2203.5 – 2258.5 mMDRT): cut 55.0 m, recovered 53.9m (98%)**

**Core-3 (2258.5 – 2316 mMDRT): cut 57.5 m, recovered 56.05m (97.5%)**

Core No	Depth mMDRT	Lithology
2	2220.26	<b>SANDSTONE (95%):</b> very light grey, moderately hard, slightly friable, very fine to fine grained, predominantly fine grained, subangular, slightly spherical, poorly sorted quartz and common to abundant white feldspar grains, rare silica cement, common quartz overgrowths, trace possible dolomite cement, common argillaceous matrix, minor fine to granule size siltstone lithic grains, rare pyrite blebs, trace mica, thinly bedded, graded bedding. 4% visible intergranular porosity, no fluorescence. Interbedded with Siltstone laminae. <b>SILTSTONE (5%):</b> greyish black, moderately hard, angular fracture, abundant finely crystalline pyrite / marcasite, micaceous, minor carbonaceous matter. Present as 1mm – 3mm thick discontinuous disrupted lamina.
2	2229.39	<b>SANDSTONE (100%):</b> light grey, friable, massive, very fine to medium grained, predominantly medium grained, subangular, slightly spherical, poorly sorted quartz grains, abundant white subangular to tabular partially weathered feldspar grains, rare patchy silica cement, quartz overgrowths, minor argillaceous matrix, trace fine lithic grains, trace chlorite, trace glauconite. 5% Intergranular porosity, no hydrocarbon odour, no fluorescence.
2	2238.51	<b>SANDY SILTSTONE (100%):</b> medium dark grey, hard, angular fracture, abundant to rarely minor disseminated very fine to fine subangular quartz and weathered feldspar grains, minor silica cement, pyrite lining to fractures, minor fine disseminated pyrite, angular fine to coarse siltstone lithic grains, poorly bedded, no porosity, no fluorescence.
2	2247.64	<b>SANDSTONE with interlaminated SANDY SILTSTONE.</b> <b>SANDSTONE (80%):</b> light grey, friable, predominantly very fine grained minor fine and trace medium grained quartz, subangular, moderate sphericity, moderately sorted, minor siliceous cement, common light grey argillaceous matrix, common partially altered feldspar, minor carbonaceous detritus and microlaminae, trace mica, trace dark grey and red brown lithics, 5% visual porosity, no fluorescence. <b>SANDY SILTSTONE (20%):</b> medium to dark grey, moderately hard, common to abundant very fine quartz grains and partially altered feldspars, minor carbonaceous detritus and microlamianae.
2	2257.34	<b>SANDSTONE with interlaminated SANDY SILTSTONE.</b> <b>SANDSTONE (50%):</b> light grey, moderately hard to hard, predominantly very fine grained minor fine grained quartz, subangular, moderate sphericity, well sorted, common siliceous cement, minor strong pyritic cement, minor light grey argillaceous matrix, common partially altered feldspar, minor carbonaceous detritus and clasts (pyritised in parts), trace mica, trace dark grey and red brown lithics, < 5% visual porosity, no fluorescence. <b>SANDY SILTSTONE (50%):</b> medium to dark grey, moderately hard, common to abundant very fine quartz grains and partially altered feldspars, minor carbonaceous detritus and microlamianae, pyritic in parts, minor micro mica..
3	2258.5	<b>SILTY SANDSTONE interlaminated with SILTSTONE</b> <b>SILTY SANDSTONE (70%):</b> light grey, medium dark grey, hard, very fine grading to medium grained, predominantly fine grained, subangular, moderate sphericity, poorly sorted quartz and common feldspar, minor silica cement, common to very abundant silt matrix, abundant feldspar, minor pyrite, rare carbonaceous matter, trace amber, common very dark grey silt streaks, grades to Siltstone, no visible porosity, no fluorescence. <b>SILTSTONE (30%):</b> very dark grey to greyish black, hard, feldspathic, micaceous, minor fine grained disseminated quartz and feldspar, common framboidal pyrite.
3	2259.10	<b>ARGILLACEOUS SILTSTONE:</b> dark grey, hard, conchoidal fracture, common feldspar, common fine carbonaceous material, common coarse mica, minor sand size lithoclasts, minor fine feldspar grains, rare very fine pyrite, trace amber, poorly bedded, grades to Siltstone.
3	2268.15	<b>SILTSTONE:</b> medium dark grey to dark grey, hard, subfissile, minor fine feldspar, common fine carbonaceous material, minor coarse mica, minor very fine pyrite, rare fine grained pyrite replacing cm size carbonaceous fragments, poorly bedded.
3	2277.29	<b>SANDSTONE:</b> light olive grey, friable, fine to medium predominantly medium grained minor fine grained quartz, subangular, moderate sphericity, well sorted quartz, minor silica cement, trace calcite cement, minor clay matrix, minor carbonaceous matter, 10% visual porosity, no fluorescence.
3	2286.48	<b>SILTSTONE:</b> greyish black, hard, subfissile, common carbonaceous fragments partially replaced by pyrite, common very fine disseminated pyrite framboids and crystals, rarer fine feldspar, minor coarse mica, .
3	2295.68	<b>SANDSTONE (50%):</b> very light brownish grey, friable, fine to very coarse grained, predominantly coarse grained, subangular, sub spherical, poorly sorted quartz, minor silica cement, quartz overgrowths, trace calcite cement, trace dark grey lithic grains, trace carbonaceous detritus, 20% visible porosity, no fluorescence. <b>CONGLOMERATE (50%):</b> very light brownish grey, loose, granule to at least pebble size. One 4.5cm pebble of white quartz, well rounded, no attached cement, inferred 25% porosity, no fluorescence.
3	2304.84	<b>SILTSTONE:</b> dark grey, greyish black, hard, subfissile, common cm scale carbonaceous laminae (?leafy matter), minor light brownish grey coarse lithic grains, rare very fine pyrite, poorly and disruptively

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**Core-3 (2258.5 – 2316 mMDRT): cut 57.5 m, recovered 56.05m (97.5%)**

		laminated, rare disrupted 1mm – 2mm very fine silty sand interlaminae.
Core No	Depth mMDRT	Lithology
3	2313.95	<b>SANDSTONE:</b> very light grey, friable, very fine to medium grained, predominantly very fine to fine grained, subangular, sub spherical, poorly sorted quartz, abundant argillaceous matrix, minor fine to coarse carbonaceous matter, irregularly distributed blebs of brownish grey siltstone, 5% visible intergranular porosity, no fluorescence.
3	2314.55	<b>SANDSTONE interlaminated with SILTSTONE</b> <b>SANDSTONE (70%):</b> very light grey, medium grey, friable, very fine to fine grained, predominantly very fine grained, subangular, moderate sphericity, poorly sorted quartz, minor to common argillaceous matrix, common silt streaks, rare carbonaceous matter, interlaminated with and commonly grades to siltstone on a mm scale, 5% - 8% visible intergranular porosity, no fluorescence, moderate hydrocarbon odour. <b>SILTSTONE (30%):</b> very dark grey to greyish black, hard, common carbonaceous streaks, minor fine grained disseminated quartz.

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### Core Tube Inventory

Core	Tube	From	To	Length	Comment
1	1	2150.00	2150.10	0.10	Short piece at top
1	2	2150.10	2153.59	3.49	
1	3	2153.59	2162.79	9.20	
1	4	2162.79	2172.00	9.21	
1	5	2172.00	2181.10	9.10	
1	6	2181.10	2190.22	9.12	
1	7	2190.22	2199.42	9.20	
1	8	2199.42	2199.87	0.45	From telescopic core catcher
2	1	2203.5	2211.07	7.57	
2	2	2211.07	2220.26	9.19	
2	3	2220.26	2229.39	9.13	
2	4	2229.39	2238.51	9.12	
2	5	2238.51	2247.65	9.14	
2	6	2247.65	2256.80	9.15	
2	7	2256.80	2257.34	0.54	From telescopic core catcher
3	1	2258.50	2259.10	0.60	
3	2	2259.10	2268.15	9.05	
3	3	2268.15	2277.29	9.14	
3	4	2277.29	2286.48	9.19	
3	5	2286.48	2295.68	9.20	
3	6	2295.68	2304.84	9.16	
3	7	2304.84	2313.95	9.11	
3	8	2313.95	2314.55	0.60	From corehead