

East Pilchard-1 Sidewall Core Descriptions

No	Depth (m)	Rec. (mm)	B/R	Description
60	1650	40	B	Sandstone: light green to olive green, very fine to fine, grading to siltstone in part, friable, well sorted, trace to nil siliceous cement, common glauconitic and argillaceous matrix, occasional orange (limonite?) stains, occasional rounded very coarse to occasional granule sized quartz, poor visual porosity, no oil shows.
59	1658	23	B	Sandstone: light green to olive green, very fine to fine, grading to siltstone in part, friable, well sorted, trace to nil siliceous cement, common glauconitic and argillaceous matrix, occasional orange (limonite?) stains, slightly calcareous in part, occasional rounded very coarse to occasional granule sized quartz, poor visual porosity, no oil shows.
58	1680	24	B	Sandstone: light green to olive green, very fine to fine, grading to siltstone in part, friable, well sorted, trace to nil siliceous cement, common glauconitic and argillaceous matrix, slightly calcareous in part, occasional rounded very coarse to occasional granule sized quartz, poor visual porosity, no oil shows.
57	1720	22	B	Sandstone: greenish grey, light olive grey, very fine grained, grading to siltstone in part, firm to friable, trace dolomitic cement, weak calcareous cement, common to abundant argillaceous matrix, rare veinlet filled with dark greenish black mineral, common disseminated pyrite, rare micromica, very poor to poor visual porosity, no oil shows.
56	1983	24	B	Sandstone: light grey, light greenish grey, occasionally moderate yellowish brown, very fine to fine grained, grading to siltstone, sub-angular to sub-rounded, moderately spherical, moderately sorted, firm to friable, trace dolomitic cement, common to abundant argillaceous matrix, disseminated pyrite common in part, rare to occasional micromica, very poor to poor visual porosity, no shows.
55	2014	25?	B	Coal: Greyish black to Black, dark reddish brown in part, vitreous lustre, sub conchoidal fracture, firm.
54	2105	18	B	Sandstone: Medium light grey, light greenish grey, very fine to fine grained, grading to siltstone, sub-angular to sub-rounded, moderately spherical, moderately sorted, firm to friable, trace dolomitic cement, common argillaceous matrix, trace to common glauconite, rare to trace disseminated pyrite, rare micromica, poor visual porosity, no shows.
53	2177	12	B	Sandstone: Medium light grey, light greenish grey, very fine to fine commonly grading to siltstone, sub-angular to sub-rounded, moderately spherical, moderately sorted, firm to friable, trace dolomitic cement, moderate calcareous cement, common argillaceous matrix, rare micromica, trace black carbonaceous material, very poor to poor visual porosity, no shows.
52	2369.5	-		No Recovery.
51	2398	25	B	Sandstone: clear, white to light grey, translucent, brownish grey in part, very fine to fine, occasionally medium, rarely coarse, sub-angular to sub-rounded, moderately spherical, moderately sorted, moderately firm to friable, calcareous cement, trace siliceous cement, rare disseminated pyrite, rare micromica, common black carbonaceous material, very poor to poor visual porosity. Shows: strong bluish white direct fluorescence.

No	Depth (m)	Rec. (mm)	B/R	Description
50	2420	19	B	Sandstone: light grey light brownish grey, greenish grey, very fine to fine grained, grading to siltstone, sub-angular to sub-rounded, moderately elongate to moderately spherical, moderately to well sorted, firm to friable, calcareous cement, trace glauconite, rare micromica, very poor to poor visual porosity.
49	2433	20	B	Sandstone: light grey light brownish grey, greenish grey, very fine to fine grained, grading to siltstone, sub-angular to sub-rounded, moderately elongate to moderately spherical, trace disseminated pyrite, moderately to well sorted, firm to friable, calcareous cement, trace glauconite, rare micromica, very poor to poor visual porosity.
48	2475	25	B	Volcanic: dark greenish grey, dark yellowish green, light olive brown, light yellowish brown, dark reddish brown, light grey translucent quartz grains, common olivine, common mica (biotite?), Plagioclase, fine crystalline groundmass, firm to friable.
47	2480	32	B	Altered Volcanic: Predominantly moderate reddish brown, dark greyish green in part, secondary white, clear calcite overgrowths in part, very fine crystalline groundmass, trace disseminated pyrite, trace micaceous material, occasional quartz grains, hard to moderately firm.
46	2513	31	B	Volcanic: light blue green, greyish red purple, greyish orange, white, clear calcite, common olivine, common biotite, common quartz, tr disseminated pyrite, crystalline, firm to friable.
45	2525	-		No Recovery.
44	2535	23	B	Calcsiltite: white, greyish orange, translucent in part, moderately firm to firm, com disseminated black carbonaceous material, tr micromica, grading to calcarenite.
43	2545	18	B	Sandstone: light brownish grey, light olive grey, greenish grey, very fine, rarely fine, well sorted, very weak siliceous cement, trace to nil calcareous cement, common argillaceous matrix, occasional carbonaceous laminations, rare pyrite disseminations, firm to slightly friable, poor visual porosity, no oil shows.
42	2555	20	B	Sandstone: light grey, medium light grey, very fine to fine, poor to moderately sorted, angular to sub-angular, weak calcareous cement, common to abundant argillaceous matrix, occasional dark green glauconitic(?) lithics, trace disseminated micro-pyrite, firm, poor visual porosity, pale to moderately bright yellowish white fluorescence, very slowly streaming pale cream cut, moderate creamy white film residue, slight petroliferous odour.
41	2557	17	B	Sandstone: light grey, medium light grey, very fine to fine, poor to moderately sorted, angular to sub-angular, weak calcareous cement, abundant argillaceous matrix, calcite presence limited along fracture planes and veinlets, thin dark veinlet cuts perpendicular to core axis, occasional dark green glauconitic(?) lithics, trace disseminated micropyrrite, firm, poor visual porosity. No fluorescence.
40	2565	38	B	Volcanic: In contact with altered (argillized) sediments; mottled pale greenish grey, very hard, finely crystalline groundmass, trace to rare euhedral hexagonal pale brownish ferromagnesian mineral, abundant feldspar, fine veinlet filled with calcite? (un-able to test with acid) no porosity, no oil show. Altered Sediment: very light grey, light greenish grey, kaolinised, indistinct grain boundaries, trace relicts / outlines of subangular to subrounded dark greenish grey grains, pervasive clay matrix, non calcareous, firm, no visual porosity, no oil shows.

No	Depth (m)	Rec. (mm)	B/R	Description
39	2582	29	B	Volcanics: light greenish grey, friable to moderately hard, commonly argillised, common off white non calcareous amygdalae, fracture planes with slicken-sided appearance, moderately calcareous in part, no oil show.
38	2590	11.5	B	Sandstone: light grey, medium light grey, occasionally light brownish grey, very fine, sub-angular, well sorted, very weak siliceous cement, calcite limited along fracture planes, common argillaceous matrix, common to abundant carbonaceous laminae, poor visual porosity, no oil shows, interlaminated with Coal: black, brownish black, dull to moderately bright and shiny lustre in part, hackly to sub-conchoidal, sub-bituminous, firm to friable.
37	2604	27	B	Coal: black, occasionally brownish black, shiny lustre, conchoidal, vitreous, friable; interbedded with Siltstone: dark grey, brownish grey, firm, very carbonaceous, non calcareous, slicken-sided fractures.
36	2613	19	B	Siltstone: light brownish grey, light olive grey, firm, very finely arenaceous grading to very fine sandstone in part, common black to brownish black fracture filling mineral, rare fine quartz disseminations, blocky to sub-fissile in part, no oil shows.
35	2647	16	B	Siltstone: medium light grey, medium grey, very fine arenaceous grading to Sandstone in part, trace disseminated fine quartz grains, rare carbonaceous lamination, firm, blocky.
34	2654	19	B	Siltstone: dark grey to greyish black, firm to moderately hard in part, very finely sandy in part, moderately calcareous along fracture planes else non calcareous, trace to common carbonaceous laminae, blocky.
33	2675	20	B	Siltstone: dark grey to greyish black, firm to moderately hard in part, very finely sandy in part, trace to common carbonaceous laminae, blocky.
32	2690	21	B	Siltstone: dark grey to greyish black, firm to moderately hard in part, very finely sandy in part, trace to common carbonaceous laminae, blocky.
31	2698	17	B	Siltstone: medium dark grey to dark grey, firm to moderately hard, blocky, commonly very finely arenaceous grading to very fine Sandstone in places, trace FeO stains when sandy, common carbonaceous specks and laminations.
30	2730	-	R	Misfire.
29	2747	21	B	Siltstone: brownish grey, olive grey, firm to moderately hard, blocky, very finely sandy in part, occasional carbonaceous material, rare slicken-sided fracture planes.
28	2761	19	B	Siltstone: brownish grey, olive grey, firm to moderately hard, blocky, very finely sandy in part, occasional carbonaceous material, trace disseminated pyrite, rare slicken-sided fracture planes.
27	2771	19	B	Siltstone: medium dark grey to dark grey, firm to moderately hard, blocky, common carbonaceous laminations, firm.

No	Depth (m)	Rec. (mm)	B/R	Description
26	2800	18	B	Sandstone: light grey to medium light grey, very fine to fine, sub-angular, moderately sorted, very weak siliceous cement, abundant argillaceous matrix, common greenish grey lithics, trace carbonaceous specks, very poor visual porosity, dull to moderately bright solid (in part) greenish yellow fluorescence, weak diffuse cut, thin pale bluish white residue.
25	2810	16	B	Sandstone: very light grey to light grey, very fine grained, sub angular to sub rounded, well sorted, very weak siliceous cement, common off white argillaceous matrix, occasional carbonaceous specks and rare carbonaceous micro laminations, very poor visual porosity. No fluorescence.
24	2821	18	B	Siltstone: medium to dark grey, firm, rare carbonaceous fragments, micro micaceous in part, uniform.
23	2835	10	B	Sandstone: off white to very light grey, fine to very fine grained, dominantly fine, rare medium grains, sub rounded to angular, moderately well sorted, common off white (kaolinite) matrix, trace carbonaceous grains, poor visible porosity, slight petroliferous odour. Fluorescence, 80% light yellow / green, moderately bright, no direct cut, no crush cut, no residue ring.
22	2850	14	B	Sandstone: light grey to light olive grey, very fine to fine grained, sub angular to sub rounded, moderately well sorted, gradational to siltstone, weak siliceous cement, silty matrix, trace carbonaceous grains, very poor visible porosity, no fluorescence.
21	2857	15	B	Siltstone: medium dark grey to dark olive grey, rare carbonaceous micro laminae, occasional fine sand grains, gradational in part to very fine sandstone, nil visible porosity. No fluorescence.
20	2875	16	B	Sandstone: off white to very light grey, fine to medium grained, occasional coarse grains, sub rounded to angular, moderately sorted, minor argillaceous matrix, common disseminated pyrite, soft, poor to fair visible porosity, Fluorescence 30% light green / yellow and restricted to coarser bands in the sandstone.
19	2887	12	B	Siltstone: medium to dark grey, brownish / grey, arenaceous, micro carbonaceous specks, slight carbonaceous banding in part, generally uniform, firm.
18	2895	18	B	Siltstone: dark grey, brownish / grey, argillaceous, micro carbonaceous specks, micro mica, uniform, firm.
17	2905	20	B	Siltstone: dark grey, brownish / grey, argillaceous to slightly arenaceous in part, micro carbonaceous specks, uniform, soft - sub firm.
16	2911	18	B	Siltstone: light medium grey to medium grey, arenaceous, common fine sand grains, rare carbonaceous grains, rare lithics, firm.
15	2932		R	No sample
14	2943	12	B	Siltstone: medium to medium dark grey, argillaceous, occasional fine sand grains, rare carbonaceous grains, trace micro mica, soft - sub firm.
13	2959	18	B	Sandstone banded with carbonaceous siltstone. Sandstone off white to light grey, fine to very fine grained, sub angular to rounded, well sorted, carbonaceous grains and finely inter laminated with black carbonaceous siltstone occasionally becoming sub vitreous and sandy in part. No fluorescence.

No	Depth (m)	Rec. (mm)	B/R	Description
12	2965	16	B	Sandstone: off white, fine to dominantly medium with occasional coarse grains, rounded to sub angular, poorly sorted, weak argillaceous cement, common carbonaceous grains and fragments, white argillaceous matrix to 15%, poor - fair visual porosity. Fluorescence, 20% dull light green/yellow, no cut, no residue ring.
11	2997	20	B	Siltstone: dark grey to greyish black, argillaceous, occasional micro carbonaceous specks, massive and uniform.
10	3005	17	B	Siltstone: dark grey to greyish black, argillaceous to arenaceous, common fine to medium sand grains, the siltstone occurs but is not interbedded with sandstone; medium grey, fine to medium grained, moderately sorted, sub angular to angular with common green grains possibly source from weathered volcanic.
9	3018		R	Miss-fire
8	3056	16	B	Siltstone: dark grey to greyish black, argillaceous, occasional micro carbonaceous specks, trace very fine sand grains, trace glauconite, uniform.
7	3072	14	B	Siltstone: dark grey to greyish black, argillaceous, occasional micro carbonaceous specks, trace very fine sand grains, uniform.
6	3087	19	B	Siltstone: greyish black, argillaceous, indistinct carbonaceous banding, uniform, firm.
5	3088	18	B	Siltstone: greyish black, argillaceous, rare carbonaceous specks, uniform, sub firm.
4	3115	14	B	Sandstone, light medium grey to medium grey, fine to rarely medium, sub rounded to very angular, moderately sorted, rare carbonaceous specks, off white to light brown argillaceous matrix, argillaceous to rare weak siliceous cement, poor visible porosity, no fluorescence.
3	3127	18	B	Siltstone: greyish black to black, arenaceous, gradational to carbonaceous siltstone, occasional sub vitreous specks, very fine sand grains, indistinctly laminated with arenaceous bands containing very fine sand grains.
2	3130		R	Empty miss fire
1	3134	15	B	Very highly weathered Volcanic, white, texture of sandstone, consisting of layered angular often elongate quartz shards in a white opaque weathered plagioclase?, calcareous matrix, no mafic minerals are present.