



Beach Petroleum Ltd
SIDEWALL CORE REPORT
WELL: Fermat-1
DATE: 10/01/2009

WELL INFORMATION

LOG SUITE No: 1 RUN: 4		GEOLOGIST: Brian Ricketts	
No. OF PREVIOUS SWC RUNS: Nil		LOGGING ENGINEER: Melissa Dawson	
BULLETS SHOT: 30	RECOVERED 27	BOUGHT: 27	
NO LOST: 1	EMPTY: 2	MISFIRE: 0	
BULLET Combo	SHOT SIZE: 10 gms	RINGS	51mm (2")

SWC No.	DEPTH (m)	REC. (mm)	BOUGHT REJECTED	PALY RES	DESCRIPTION
1	3495.3	22	Bought	Paly	Sandy siltstone: medium grey, argillaceous, 20% very fine sand; slightly carbonaceous, trace white mica; core partly crushed, soft.
2	3475.2	30	Bought	Paly	Sandy siltstone: As above. Fresh surface moderately hard, non-calcareous. Possibly interlaminated with silty very fine sandstone.
3	3452.7	20	Bought	Paly	Interlaminated sandy siltstone-silty sandstone: Pale grey very fine sandstone, poorly sorted, quartz dominant, slightly carbonaceous, trace white mica. core partly crushed, soft, friable.
4	3440.8	27	Bought	Paly	Interlaminated sandy siltstone-silty sandstone: core partly crushed, soft, friable.
5	3416.8	18	Bought	Res	Sandstone: pale grey to whitish grey, predominantly very fine, ranging to fine-grained; poorly to moderately sorted; 5% green to pale brown lithics, trace carbonaceous flecks, white mica. Clay cement. Soft, friable. Weak mineral fluorescence.
6	3410.5	20	Bought	Res	Sandstone: As above. Harder with calcite cemented zones or laminae. Weak mineral fluorescence
7	3369.3	18	Bought	Res	Muddy siltstone: Brown-grey. Centre of core hard, cemented with splintery fracture. slightly calcareous, moderately carbonaceous, trace white mica
8	3359	14	Bought	Res	Silty sandstone: As above. Very fine grained; moderately to slightly carbonaceous; soft crushed core; no fluorescence.
9	3354	22	Bought	Res	Coarse sandstone: laminated, ranging from white medium grained, to coarse-grained. A few quartz grains are very coarse. Lithics 10%. Laminae up to 3 mm thick in core. Interlaminated with brown-grey silty very fine sandstone. Carbonaceous fragments aligned along laminae. Angular faces on quartz grains from quartz

COMMENTS

Recovery 90%. Could not pass 3500m – requested core depths 3547m and 3517.7m altered to 3495.3 and 3452.7m



Beach Petroleum Ltd
SIDEWALL CORE REPORT
WELL: Fermat-1
DATE: 10/01/2009

SWC No.	DEPTH (m)	REC. (mm)	BOUGHT REJECTED	PALY RES	DESCRIPTION
					overgrowth cements. Poor visible porosity. Moderately hard. No fluorescence.
10	3343	15	Bought	Paly	Sandy siltstone: As above. Crushed core.
11	3294.7	20	Bought	Paly	Sandy siltstone: As above. Crushed core.
12	3272.2	23	Bought	Paly	Silty claystone: Laminated, medium grey to brown-grey. Trace carbonaceous flecks, trace mica; soft to firm
13	3218.5	20	Bought	Paly	Silty sandstone: As above. Slightly calcareous. Firm to hard, with irregular patches of very hard cemented sandstone. No fluorescence
14	3168	32	Bought	Paly	Sandy siltstone: Hard, non- to slightly calcareous. No fluorescence
15	3129	25	Bought	Paly	Sandy siltstone: As above
16	3082	15	Bought	Paly	Sandy siltstone: As above. moderately hard.
17	3065.5	20	Bought	Res	Sandstone: Very fine to fine grained, as above. Poor visible porosity. 1-2 mm thick lamination of claystone.
18	3057.4	30	Bought	Res	Sandstone: Very fine to fine grained, as above. Ranges to medium grained. Interlaminated with cemented silty sandstone. Moderate visible porosity. No fluorescence.
19	3047.6	0		Paly	Empty
20	3025.7	30	Bought	Res	Sandstone: Fine to medium grained, laminated, as above. Trace glauconite. Moderately hard. No fluorescence.
21	3017	20	Bought	Res	Sandstone: : Very fine to fine grained, as above. 1-2% glauconite. moderately hard. Non- to slightly calcareous. No fluorescence
22	3003.8	27	Bought	Res	Sandstone: Very fine to fine grained, as above. 2-3% glauconite. Laminated. Friable. Poor to moderate visible porosity. No fluorescence
23	2992.5	30	Bought	Paly	Silty claystone: As above. Moderately hard to hard
24	2952.5	28	Bought	Paly	Silty claystone: As above. Moderately hard to hard
25	2919.7	0		Paly	Empty
26	2894	33	Bought	Res	Sandstone: Laminated, medium to coarse grained, as above. Moderately rounded to subangular. Quartz dominant, some lithics. 2-3 % glauconite. Moderately hard to friable, cemented in places. No fluorescence.
27	2886.7	24	Bought	Res	Sandstone: Medium grained, as above. Poor visible porosity. No fluorescence

COMMENTS

Recovery 90%. Could not pass 3500m – requested core depths 3547m and 3517.7m altered to 3495.3 and 3452.7m

