



Apache Northwest Pty Ltd
SIDE WALL CORE DESCRIPTIONS

Well Name : Speke South-1 Suite Number : 1 Run Number : 3 Run Date : 4/19/2008 Hole Size : 216 (mm)	Service Company : Schlumberger Engineers : A. Dandi, M. Dawson Geologists : C. Forster, M. Ngatai
Lost: 0 Empty: 0 Rejected: 0 Bought: 0 Misfired: 0	

Shot No.	SWC No	SWC Depth (m)	Rec. Length (cm)	Shot Type	Lithology / Shows
1	1	3118.0		Evaluation	SANDSTONE: 100% white, patchy very light medium grey, transparent, translucent quartz, very fine to rare medium, trace coarse, sub round to sub angular, well sorted, quartz silt matrix, very weak siliceous cement in part, trace calcareous, abundant re-crystallised transparent quartz flakes, 10% medium grey argillaceous patches, poor to fair visible porosity, FLUORESCENCE FLUORESCENCE : (15%) spotted weak dull yellow, yellowish white fluorescence, very slow greenish white diffuse blooming cut.
2	2	3112.8			SANDSTONE: 100% white, patchy very light medium grey, transparent, translucent quartz, very fine to rare medium, trace coarse, sub round to rounded and angular in part, well sorted, quartz silt matrix, very weak siliceous cement in part, trace calcareous, abundant re-crystallised transparent quartz flakes, 10% medium grey argillaceous patches, poor to fair visible porosity, FLUORESCENCE FLUORESCENCE : (Trace) 5-10 % spotted greenish yellow fluorescence, no cut
3	3	3103.3			NOT RECOVERED: 100%
4	4	3053.0			SANDSTONE: 100% white, patchy very light medium grey, transparent, translucent quartz, very fine to fine, subangular , well sorted, quartz silt matrix, non-calcareous, abundant re-crystallised transparent quartz flakes, minor medium grey argillaceous patches, poor to fair visible porosity, FLUORESCENCE FLUORESCENCE : (2%) 2-5% pin pint greenish yellow fluor, slow weak whitish yellow difuse cut
5	5	3038.5			NOT RECOVERED: 100%
6	6	2072.7			FLUORESCENCE : (Trace)
7	7	2958.3			SANDSTONE: 100% white, patchy very light medium grey, transparent, translucent quartz, very fine to fine, subangular , well sorted, quartz silt matrix, non-calcareous, abundant re-crystallised transparent quartz flakes, minor medium grey argillaceous patches, poor to fair visible porosity FLUORESCENCE : (Trace) 1% very slow, very weak yellow cut NOT RECOVERED: 100% FLUORESCENCE : (Trace)
8	8	2911.5			NOT RECOVERED: 100%
9	9	2853.6			FLUORESCENCE : (Trace)
10	10	2795.0			SILTSTONE: 100% brown black to olive black, abundant very fine to fine quartz grains, 10% carbonaceous flakes, firm to friable FLUORESCENCE : (Trace) NOT RECOVERED: 100% FLUORESCENCE : (Trace)

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11	11	2752.5			SANDSTONE: 100% White to very light grey, transparent to translucent, fine to very fine and medium in part quartz, rounded, well sorted, weakly cemented, friable, rare microcrystalline pyrite, trace mica flakes, non-calcareous, argillaceous to silt quartz matrix, fair porosity
12	12	2750.5			SANDSTONE: 100% White to very light grey, transparent to translucent, fine to very fine and medium in part quartz, rounded, well sorted, poorly cemented, friable, trace mica flakes, slightly to moderately calcareous, argillaceous to silt quartz matrix, fair visible porosity
13	13	2728.0			SILTSTONE: 100% Dusky yellowish brown, hard, fissile, minor very fine quartz, minor micromicas, argillaceous in part, non-calcareous
14	14	2680.0			SILTSTONE: 100% Dusky yellowish brown, hard, fissile, minor very fine quartz, minor micromicas, 5% carbonaceous material, non-calcareous, argillaceous in part; light grey, very fine silty sandstone inclusion with trace coarse to very coarse angular quartz, coarse lithics (siltstone), trace pyrite, highly calcareous, quartz silt and argillaceous matrix; trace Coal, black, sub-anthracitic, sub-conchoidal fracture, fissile
15	15	2665.2			SANDSTONE: 100% White to very light grey, transparent to translucent, very fine to fine rounded and rare medium subangular quartz, well sorted, friable, trace recrystallised quartz, trace mica flakes, non-calcareous, argillaceous to silt quartz matrix, fair porosity
16	16	2634.0			CLAYSTONE: 100% Pale brown, abundant very fine to fine, trace coarse to very coarse quartz, grading to a argillaceous sandstone, firm to hard, minor carbonaceous specks, non-calcareous
17	17	2582.0			CLAYSTONE: 100% Light brownish grey, trace very fine to fine, quartz, hard, silicified in part, common carbonaceous specks, non-calcareous
18	18	2527.5			NOT RECOVERED: 100%
19	19	2492.5			CALCAREOUS CLAYSTONE: 100% Olive grey, firm, subfissile, trace coaly laminations in part, moderately calcareous
20	20	2451.2			CALCAREOUS SILTSTONE: 100% Light grey, very fine, rounded, well sorted, quartz and grading to a very fine sandstone in part, moderately calcareous, locally trace slightly to moderate coaly lenses
21	21	2396.5			NOT RECOVERED: 100%
22	22	2314.5			SILTSTONE: 100% Brownish grey, firm to hard, moderately fissile, argillaceous, common carbonaceous material, slightly calcareous in part
23	23	2254.5			CLAYSTONE: 100% brown grey to dark yellowish brown, firm to very hard, fissile, non-calcareous
24	24	2191.2			NOT RECOVERED: 100% DID NOT FIRE
25	25	2109.7			SILTSTONE: 100% Pale yellowish brown to light brownish grey, firm, common pyrite, common carbonaceous specks, argillaceous, slightly to moderately calcareous in part
26	26	2076.5			CLAYSTONE: 100% Light greenish bluish grey, firm, fissile, non-calcareous
27	27	2026.0			SANDSTONE: 100% Light grey, transparent to translucent, very fine quartz, rounded, well sorted, silty argillaceous matrix, soft to firm, trace carbonaceous specks, fair visible porosity

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Shot No.	SWC No	SWC Depth (m)	Rec. Length (cm)	Shot Type	Lithology / Shows
28	28	1959.0			SANDSTONE: 100% Light grey, transparent to translucent, very fine quartz, rounded, well sorted, silty argillaceous matrix, poorly cemented, soft to firm, trace carbonaceous specks, non-calcareous, nil to fair visible porosity
29	29	1881.5			SANDSTONE: 100% Light grey to greenish grey, translucent to transparent, friable, medium to coarse, common very coarse and trace granular, quartz, angular to subangular, moderately well sorted, trace medium green glauconite, poorly cemented, non-calcareous, good visible porosity
30	30	1877.0			SILTSTONE: 100% Light grey, firm, common transparent very fine rounded quartz, trace carbonaceous specks, moderately calcareous