

Schlumberger

Drilling & Measurements



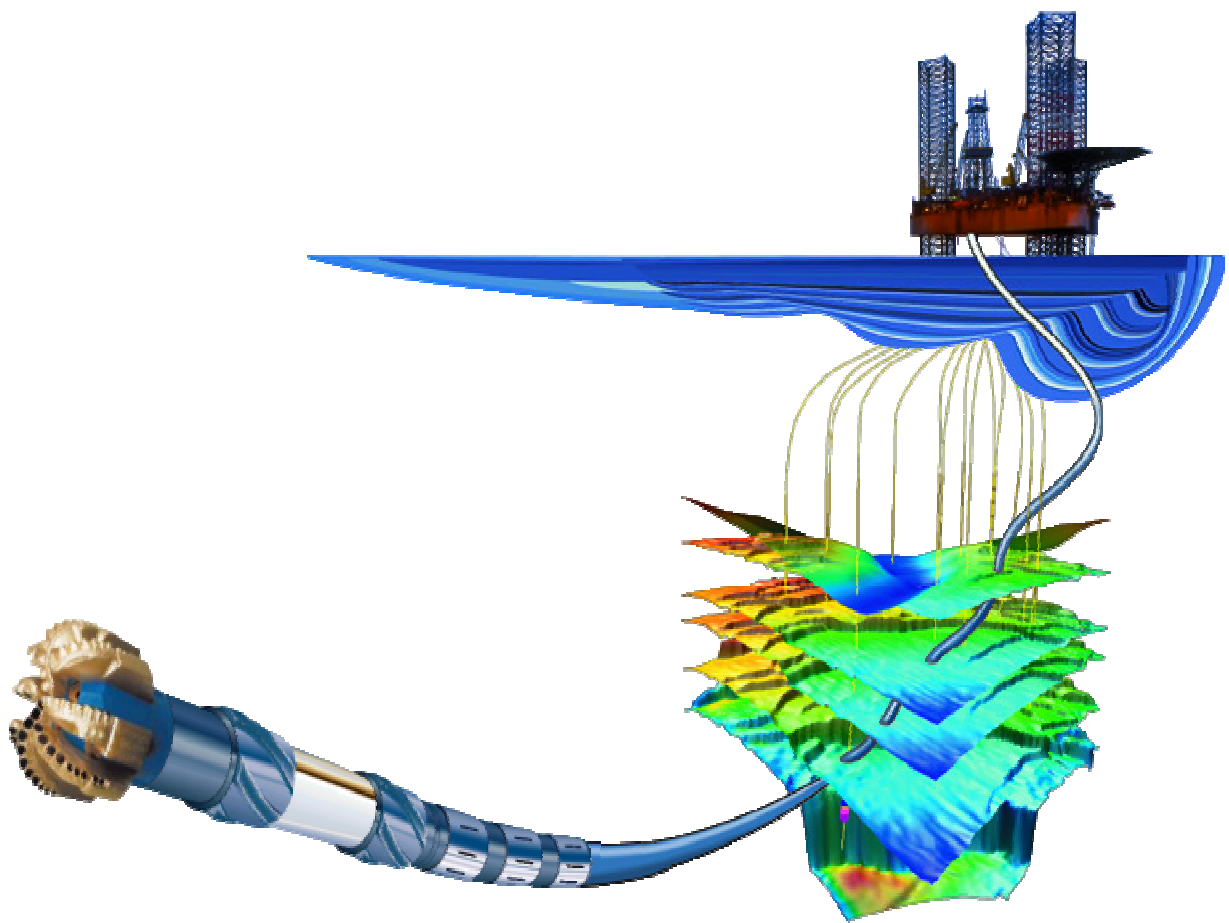
Fermat-1

End of Well Report

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1. General Information



General Information

Well Name:	Fermat-1	
Rig:	West Triton	
Field:	Fermat-1	
Location:	Otway Basin	
Country:	Australia	
Cell Members:	Joshua Seevaratnam San Thida Aung David Gibson Rika Kartorahardjo	MWD/LWD Engineer MWD/LWD Engineer MWD/LWD Engineer MWD/LWD Engineer
Town Contacts:	David Rapp Michael McDermott Femi Daramola Mee Yean Tan	Operations Manager Field Services Manager Service Quality Coach Engineer In Charge
Company Representatives:	S. De Freitas & R. Rossouw Peter Sheenhan	Senior Drilling Supervisor Drilling Supervisor

Geomagnetic and Survey Reference Criteria

Fermat-1

Geomagnetic Data

Magnetic Model:	BGGM version 2008
Magnetic Date:	23 December 2008
Magnetic Field Strength:	1214.38 HCNT
Magnetic Declination:	9.868 degrees
Magnetic Dip:	-69.62 degrees

Survey Reference Criteria

Reference G:	1000.2 mGal
Reference H:	1214.44 HCNT
Reference Dip:	-69.62 degrees
G value Tolerance:	(+/-) 2.50 mGal
H value Tolerance:	(+/-) 6.00 HCNT
Dip Tolerance:	(+/-) 0.45 degrees

Survey Corrections Applied

Reference North:	Grid North
Magnetic Declination:	9.868 degrees
Grid Convergence:	-0.0332 degrees
Total Azimuth Correction:	9.901 degrees
Vertical Section Azimuth:	190.80 degrees

Survey Reference Location

Fermat-1 Surface Coordinates:

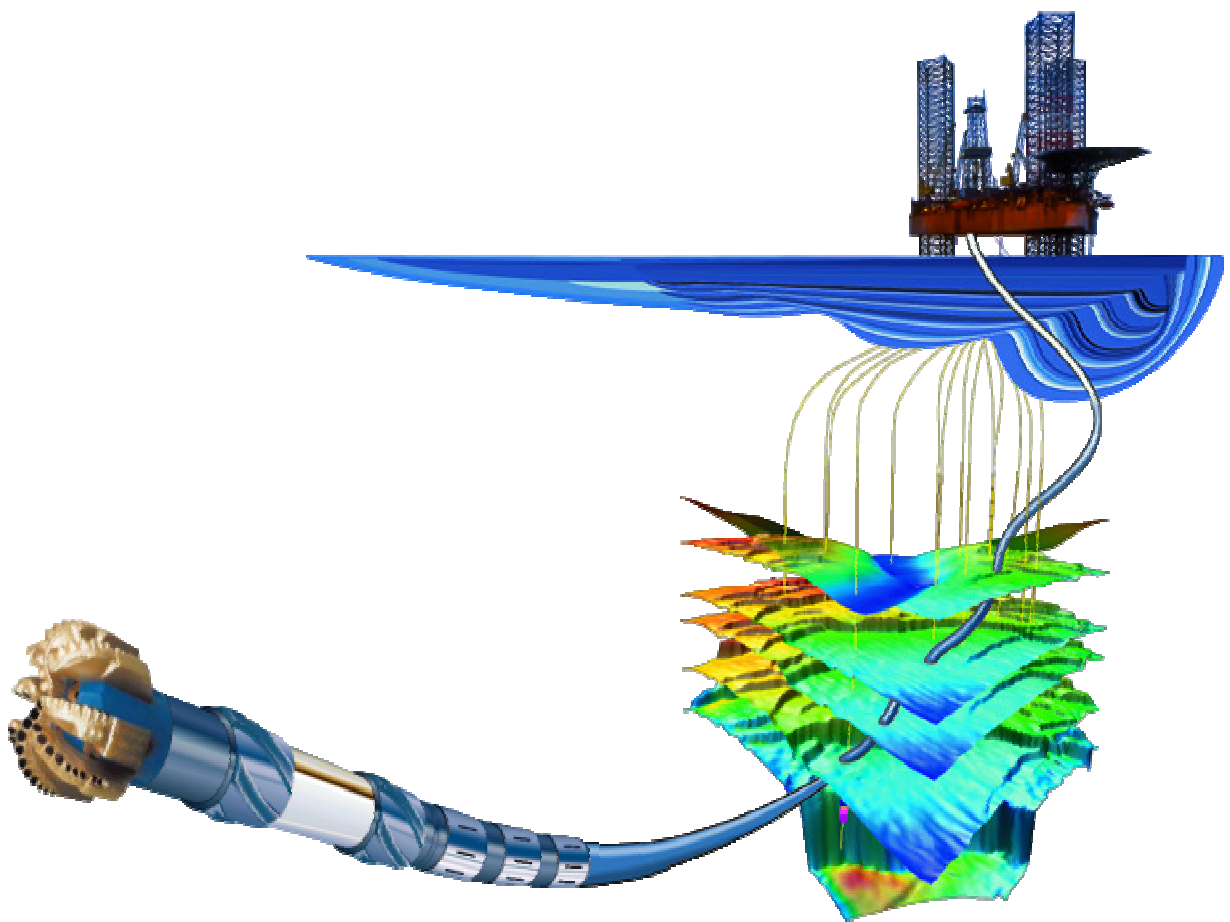
Latitude:	38° 11' 47.029" South
Longitude:	141° 3' 13.773" East
Northing:	5772392.606 meters
Easting:	504713.143 meters
Vertical Datum:	Mean Sea Level
Rotary Table Elevation:	38.00m above Mean Sea Level (MSL)

Health, Safety and Environment

Schlumberger Drilling and Measurements personnel actively participated in the Seadrill STOP safety initiative, and attended pre-tour and weekly safety meetings.

Schlumberger Drilling and Measurements personnel were not involved in any safety incidents while on board the West Triton.

2. Definitive Survey



Fermat - 1 MWD Surveys DMAG Survey Report

Report Date: January 9, 2009	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client:	Vertical Section Azimuth: 190.800°
Field: Beach - Fermat-1	Vertical Section Origin: N 0.000 m, E 0.000 m
Structure / Slot: Fermat-1 / Slot 1	TVD Reference Datum: RKB
Well: Fermat-1	TVD Reference Elevation: 38.0 m relative to MSL
Borehole: Fermat-1	Sea Bed / Ground Level Elevation: -39.000 m relative to MSL
UWI/API#:	Magnetic Declination: 9.868°
Survey Name / Date: Fermat - 1 MWD Surveys DMAG / December 23, 2008	Total Field Strength: 60719.112 nT
Tort / AHD / DDI / ERD ratio: 43.347° / 158.05 m / 4.352 / 0.044	Magnetic Dip: -69.623°
Grid Coordinate System: GDA94/MGA94 Zone 54	Declination Date: December 28, 2008
Location Lat/Long: S 38 11 47.029, E 141 3 13.773	Magnetic Declination Model: BGGM 2008
Location Grid N/E Y/X: N 5772392.606 m, E 504713.143 m	North Reference: Grid North
Grid Convergence Angle: -0.03328376°	Total Corr Mag North -> Grid North: +9.901°
Grid Scale Factor: 0.99960027	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth Grid (deg)	TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5772392.61	504713.14	S 38 11 47.029	E 141 3 13.773
	167.75	1.24	1.78	167.74	-1.79	1.81	0.06	0.22	5772394.42	504713.20	S 38 11 46.970	E 141 3 13.776
	197.16	0.28	58.77	197.14	-2.16	2.17	0.13	1.13	5772394.77	504713.27	S 38 11 46.958	E 141 3 13.779
	256.53	0.60	153.30	256.51	-2.01	1.97	0.39	0.34	5772394.57	504713.53	S 38 11 46.965	E 141 3 13.789
	286.11	2.77	188.85	286.08	-1.17	1.12	0.35	2.34	5772393.73	504713.49	S 38 11 46.992	E 141 3 13.788
	315.55	1.66	227.88	315.50	-0.12	0.13	-0.07	1.85	5772392.74	504713.07	S 38 11 47.024	E 141 3 13.770
	345.27	0.27	15.10	345.21	0.16	-0.09	-0.38	1.91	5772392.52	504712.77	S 38 11 47.032	E 141 3 13.758
	374.62	0.25	25.51	374.56	0.03	0.04	-0.33	0.05	5772392.64	504712.81	S 38 11 47.028	E 141 3 13.760
	404.16	1.88	211.90	404.10	0.42	-0.32	-0.56	2.16	5772392.29	504712.58	S 38 11 47.039	E 141 3 13.750
	463.95	0.32	269.03	463.88	1.36	-1.15	-1.24	0.87	5772391.45	504711.90	S 38 11 47.066	E 141 3 13.722
	493.39	0.43	249.60	493.32	1.44	-1.19	-1.43	0.17	5772391.41	504711.71	S 38 11 47.067	E 141 3 13.715
	523.07	0.44	347.74	523.00	1.39	-1.12	-1.56	0.66	5772391.49	504711.59	S 38 11 47.065	E 141 3 13.709
	552.74	0.22	270.06	552.67	1.30	-1.01	-1.64	0.45	5772391.60	504711.50	S 38 11 47.061	E 141 3 13.706
	582.42	0.09	59.69	582.35	1.29	-1.00	-1.68	0.30	5772391.61	504711.47	S 38 11 47.061	E 141 3 13.705
	611.99	0.51	339.54	611.92	1.16	-0.86	-1.70	0.51	5772391.75	504711.44	S 38 11 47.057	E 141 3 13.703
	641.40	0.19	327.69	641.32	1.02	-0.70	-1.77	0.33	5772391.91	504711.37	S 38 11 47.051	E 141 3 13.701
	670.88	0.49	288.55	670.80	0.96	-0.62	-1.92	0.37	5772391.99	504711.22	S 38 11 47.049	E 141 3 13.695
	700.49	0.33	247.43	700.41	0.99	-0.61	-2.12	0.33	5772392.00	504711.03	S 38 11 47.048	E 141 3 13.686
	729.55	0.46	275.90	729.47	1.05	-0.63	-2.31	0.24	5772391.98	504710.83	S 38 11 47.049	E 141 3 13.678
	759.18	0.36	241.87	759.10	1.12	-0.66	-2.51	0.26	5772391.95	504710.63	S 38 11 47.050	E 141 3 13.670
	788.76	0.65	163.00	788.68	1.33	-0.86	-2.54	0.69	5772391.74	504710.60	S 38 11 47.057	E 141 3 13.669
	818.32	0.12	122.27	818.24	1.49	-1.04	-2.47	0.57	5772391.57	504710.67	S 38 11 47.063	E 141 3 13.672
	848.13	0.24	67.63	848.05	1.46	-1.03	-2.39	0.20	5772391.57	504710.76	S 38 11 47.062	E 141 3 13.675
	877.69	0.50	112.18	877.61	1.45	-1.06	-2.21	0.38	5772391.55	504710.93	S 38 11 47.063	E 141 3 13.683
	906.92	0.33	214.11	906.84	1.56	-1.18	-2.14	0.67	5772391.43	504711.01	S 38 11 47.067	E 141 3 13.686
	936.44	1.52	212.18	936.35	2.00	-1.58	-2.39	1.21	5772391.03	504710.75	S 38 11 47.080	E 141 3 13.675
	966.55	2.74	216.55	966.44	3.02	-2.49	-3.04	1.23	5772390.11	504710.11	S 38 11 47.110	E 141 3 13.649
	990.90	2.28	226.38	990.77	3.94	-3.30	-3.73	0.77	5772389.31	504709.41	S 38 11 47.136	E 141 3 13.620
12.25 in Section BHA4	1023.76	2.63	224.84	1023.60	5.09	-4.28	-4.74	0.33	5772388.33	504708.41	S 38 11 47.168	E 141 3 13.579
	1053.62	2.63	224.67	1053.43	6.23	-5.26	-5.70	0.01	5772387.35	504707.44	S 38 11 47.199	E 141 3 13.539
	1083.09	2.60	225.86	1082.87	7.34	-6.20	-6.66	0.06	5772386.41	504706.49	S 38 11 47.230	E 141 3 13.500
	1112.27	2.75	224.69	1112.02	8.46	-7.16	-7.62	0.16	5772385.45	504705.52	S 38 11 47.261	E 141 3 13.460
	1141.71	2.61	223.95	1141.42	9.61	-8.14	-8.59	0.15	5772384.46	504704.56	S 38 11 47.293	E 141 3 13.421
	1171.39	2.66	223.44	1171.07	10.76	-9.13	-9.53	0.06	5772383.48	504703.62	S 38 11 47.325	E 141 3 13.382
	1200.78	2.64	223.80	1200.43	11.90	-10.12	-10.47	0.03	5772382.49	504702.68	S 38 11 47.357	E 141 3 13.343
	1230.79	2.72	225.15	1230.41	13.06	-11.12	-11.45	0.10	5772381.49	504701.70	S 38 11 47.389	E 141 3 13.303
	1288.88	2.77	225.56	1288.43	15.36	-13.07	-13.43	0.03	5772379.54	504699.72	S 38 11 47.453	E 141 3 13.222
	1318.86	2.69	226.89	1318.38	16.52	-14.06	-14.46	0.10	5772378.55	504698.69	S 38 11 47.485	E 141 3 13.179
	1407.48	2.91	229.04	1406.89	19.97	-16.95	-17.68	0.08	5772375.66	504695.47	S 38 11 47.579	E 141 3 13.047
	1436.37	2.94	228.54	1435.74	21.13	-17.93	-18.79	0.04	5772374.69	504694.36	S 38 11 47.610	E 141 3 13.002
	1465.90	3.02	227.97	1465.23	22.35	-18.95	-19.93	0.09	5772373.67	504693.22	S 38 11 47.644	E 141 3 12.955
	1495.44	3.02	228.27	1494.73	23.58	-19.99	-21.09	0.02	5772372.63	504692.06	S 38 11 47.677	E 141 3 12.907
	1525.13	3.06	228.31	1524.38	24.83	-21.03	-22.27	0.04	5772371.58	504690.89	S 38 11 47.711	E 141 3 12.859
	1554.71	3.12	227.55	1553.92	26.11	-22.10	-23.45	0.07	5772370.51	504689.70	S 38 11 47.746	E 141 3 12.810
	1584.40	3.16	227.33	1583.56	27.41	-23.20	-24.65	0.04	5772369.41	504688.51	S 38 11 47.782	E 141 3 12.761

BHA 5 - from 2396m Motor correction	1614.18	3.15	227.26	1613.30	28.73	-24.31	-25.85	0.01	5772368.30	504687.30	S 38 11 47.818	E 141 3 12.712
	1643.45	3.22	227.15	1642.52	30.04	-25.42	-27.04	0.07	5772367.20	504686.11	S 38 11 47.854	E 141 3 12.663
	1732.53	3.23	229.06	1731.46	34.02	-28.77	-30.77	0.04	5772363.85	504682.38	S 38 11 47.962	E 141 3 12.509
	1761.71	3.31	229.32	1760.59	35.33	-29.85	-32.03	0.08	5772362.76	504681.12	S 38 11 47.998	E 141 3 12.458
	1791.33	3.27	229.40	1790.17	36.66	-30.96	-33.32	0.04	5772361.66	504679.83	S 38 11 48.033	E 141 3 12.405
	1820.98	3.35	229.44	1819.77	37.99	-32.07	-34.62	0.08	5772360.54	504678.53	S 38 11 48.070	E 141 3 12.351
	1880.19	3.46	227.97	1878.87	40.77	-34.40	-37.27	0.07	5772358.22	504675.89	S 38 11 48.145	E 141 3 12.243
	1939.47	3.51	227.37	1938.04	43.65	-36.82	-39.93	0.03	5772355.80	504673.23	S 38 11 48.224	E 141 3 12.133
	2028.16	3.39	229.51	2026.57	47.88	-40.36	-43.92	0.06	5772352.26	504669.24	S 38 11 48.339	E 141 3 11.969
	2057.35	3.37	231.70	2055.71	49.20	-41.46	-45.25	0.13	5772351.17	504667.91	S 38 11 48.374	E 141 3 11.915
	2086.92	3.34	227.82	2085.23	50.54	-42.57	-46.57	0.23	5772350.05	504666.59	S 38 11 48.410	E 141 3 11.860
	2116.75	3.44	227.04	2115.01	51.96	-43.77	-47.87	0.11	5772348.86	504665.29	S 38 11 48.449	E 141 3 11.807
	2146.40	3.29	227.47	2144.61	53.36	-44.95	-49.15	0.15	5772347.68	504664.01	S 38 11 48.487	E 141 3 11.755
	2175.52	3.42	228.06	2173.68	54.72	-46.09	-50.41	0.14	5772346.53	504662.75	S 38 11 48.525	E 141 3 11.703
	2235.00	3.46	227.38	2233.05	57.58	-48.49	-53.05	0.03	5772344.13	504660.11	S 38 11 48.602	E 141 3 11.594
	2264.44	3.46	226.56	2262.44	59.01	-49.71	-54.35	0.05	5772342.92	504658.82	S 38 11 48.642	E 141 3 11.541
	2323.60	3.26	226.76	2321.49	61.82	-52.09	-56.87	0.10	5772340.54	504656.29	S 38 11 48.719	E 141 3 11.437
	2382.70	3.36	228.47	2380.50	64.55	-54.39	-59.39	0.07	5772338.24	504653.78	S 38 11 48.794	E 141 3 11.334
	2412.78	2.64	231.24	2410.53	65.78	-55.40	-60.59	0.73	5772337.22	504652.58	S 38 11 48.827	E 141 3 11.285
	2441.90	1.53	213.40	2439.63	66.65	-56.15	-61.33	1.31	5772336.48	504651.84	S 38 11 48.851	E 141 3 11.254
	2471.60	0.60	128.24	2469.33	67.08	-56.58	-61.42	1.61	5772336.05	504651.74	S 38 11 48.865	E 141 3 11.250
	2500.84	1.41	69.21	2498.57	66.97	-56.54	-60.97	1.25	5772336.09	504652.20	S 38 11 48.864	E 141 3 11.269
	2530.68	2.34	71.20	2528.39	66.47	-56.22	-60.05	0.94	5772336.41	504653.12	S 38 11 48.853	E 141 3 11.307
	2559.85	2.34	72.69	2557.54	65.90	-55.85	-58.92	0.06	5772336.78	504654.25	S 38 11 48.841	E 141 3 11.353
	2589.92	2.25	73.44	2587.58	65.34	-55.50	-57.76	0.09	5772337.13	504655.40	S 38 11 48.830	E 141 3 11.401
	2648.85	2.04	82.16	2646.47	64.47	-55.02	-55.62	0.20	5772337.61	504657.55	S 38 11 48.814	E 141 3 11.489
	2678.97	2.05	86.30	2676.57	64.16	-54.91	-54.55	0.15	5772337.71	504658.62	S 38 11 48.811	E 141 3 11.533
	2708.38	2.63	86.65	2705.96	63.87	-54.84	-53.35	0.59	5772337.79	504659.82	S 38 11 48.808	E 141 3 11.582
	2737.95	2.75	86.68	2735.49	63.53	-54.76	-51.96	0.12	5772337.87	504661.20	S 38 11 48.806	E 141 3 11.639
	2767.46	3.28	73.47	2764.96	62.97	-54.48	-50.45	0.88	5772338.15	504662.72	S 38 11 48.797	E 141 3 11.701
Motor run TD at 2807m 8.5 in Run	2783.95	3.22	72.34	2781.43	62.53	-54.20	-49.55	0.16	5772338.42	504663.61	S 38 11 48.788	E 141 3 11.738
	2816.25	3.18	78.94	2813.68	61.76	-53.76	-47.81	0.34	5772338.87	504665.35	S 38 11 48.773	E 141 3 11.810
	2845.87	3.21	82.42	2843.25	61.20	-53.49	-46.18	0.20	5772339.14	504666.98	S 38 11 48.764	E 141 3 11.877
	2875.23	3.12	85.48	2872.57	60.73	-53.32	-44.57	0.20	5772339.31	504668.59	S 38 11 48.759	E 141 3 11.943
	2904.72	3.04	88.56	2902.01	60.35	-53.24	-42.99	0.19	5772339.39	504670.17	S 38 11 48.756	E 141 3 12.008
	2934.24	2.89	94.43	2931.49	60.10	-53.27	-41.46	0.34	5772339.35	504671.70	S 38 11 48.757	E 141 3 12.071
	2963.69	2.77	103.77	2960.91	60.05	-53.50	-40.03	0.48	5772339.13	504673.13	S 38 11 48.765	E 141 3 12.129
	2992.79	2.65	116.56	2989.98	60.27	-53.97	-38.75	0.63	5772338.66	504674.41	S 38 11 48.780	E 141 3 12.182
	3022.28	2.80	118.01	3019.43	60.67	-54.61	-37.50	0.17	5772338.02	504675.66	S 38 11 48.801	E 141 3 12.233
	3051.99	2.87	121.90	3049.11	61.15	-55.35	-36.23	0.21	5772337.28	504676.93	S 38 11 48.824	E 141 3 12.286
	3081.57	2.92	130.18	3078.65	61.79	-56.22	-35.03	0.43	5772336.40	504678.13	S 38 11 48.853	E 141 3 12.335
	3111.25	3.10	139.57	3108.29	62.66	-57.32	-33.93	0.53	5772335.31	504679.23	S 38 11 48.888	E 141 3 12.380
	3140.79	3.39	147.97	3137.78	63.81	-58.67	-32.95	0.56	5772333.96	504680.21	S 38 11 48.932	E 141 3 12.421
	3170.28	3.47	152.03	3167.22	65.14	-60.20	-32.07	0.26	5772332.43	504681.09	S 38 11 48.982	E 141 3 12.457
	3199.75	3.55	146.04	3196.63	66.48	-61.74	-31.14	0.38	5772330.89	504682.02	S 38 11 49.032	E 141 3 12.495
	3229.40	3.69	145.49	3226.22	67.81	-63.29	-30.08	0.15	5772329.34	504683.07	S 38 11 49.082	E 141 3 12.539
	3259.28	3.79	146.43	3256.04	69.19	-64.91	-28.99	0.12	5772327.73	504684.16	S 38 11 49.134	E 141 3 12.583
	3288.90	3.91	148.34	3285.59	70.63	-66.58	-27.92	0.18	5772326.05	504685.23	S 38 11 49.189	E 141 3 12.627
	3318.10	4.02	150.54	3314.72	72.15	-68.32	-26.90	0.19	5772324.31	504686.26	S 38 11 49.245	E 141 3 12.670
	3347.40	4.21	152.14	3343.95	73.77	-70.16	-25.89	0.23	5772322.47	504687.26	S 38 11 49.305	E 141 3 12.711
	3376.97	4.39	156.43	3373.43	75.55	-72.16	-24.93	0.37	5772320.47	504688.22	S 38 11 49.370	E 141 3 12.751
	3406.76	4.66	160.95	3403.13	77.54	-74.35	-24.08	0.45	5772318.29	504689.07	S 38 11 49.441	E 141 3 12.786
	3436.14	5.16	162.03	3432.40	79.74	-76.73	-23.28	0.52	5772315.90	504689.87	S 38 11 49.518	E 141 3 12.818
	3465.57	5.58	159.59	3461.70	82.12	-79.33	-22.37	0.49	5772313.30	504690.78	S 38 11 49.602	E 141 3 12.856
	3495.57	6.02	157.91	3491.55	84.69	-82.16	-21.27	0.47	5772310.48	504691.88	S 38 11 49.694	E 141 3 12.901
	3525.24	6.42	158.39	3521.05	87.40	-85.14	-20.08	0.41	5772307.50	504693.07	S 38 11 49.790	E 141 3 12.950
	3555.17	6.99	159.59	3550.77	90.37	-88.41	-18.83	0.59	5772304.24	504694.32	S 38 11 49.896	E 141 3 13.002
	3569.38	7.28	160.29	3564.87	91.88	-90.06	-18.22	0.64	5772302.58	504694.93	S 38 11 49.950	E 141 3 13.027
Well TD	3585.00	7.60	161.03	3580.36	93.63	-91.97	-17.55	0.64	5772300.67	504695.60	S 38 11 50.012	E 141 3 13.054

Survey Type: Definitive Survey

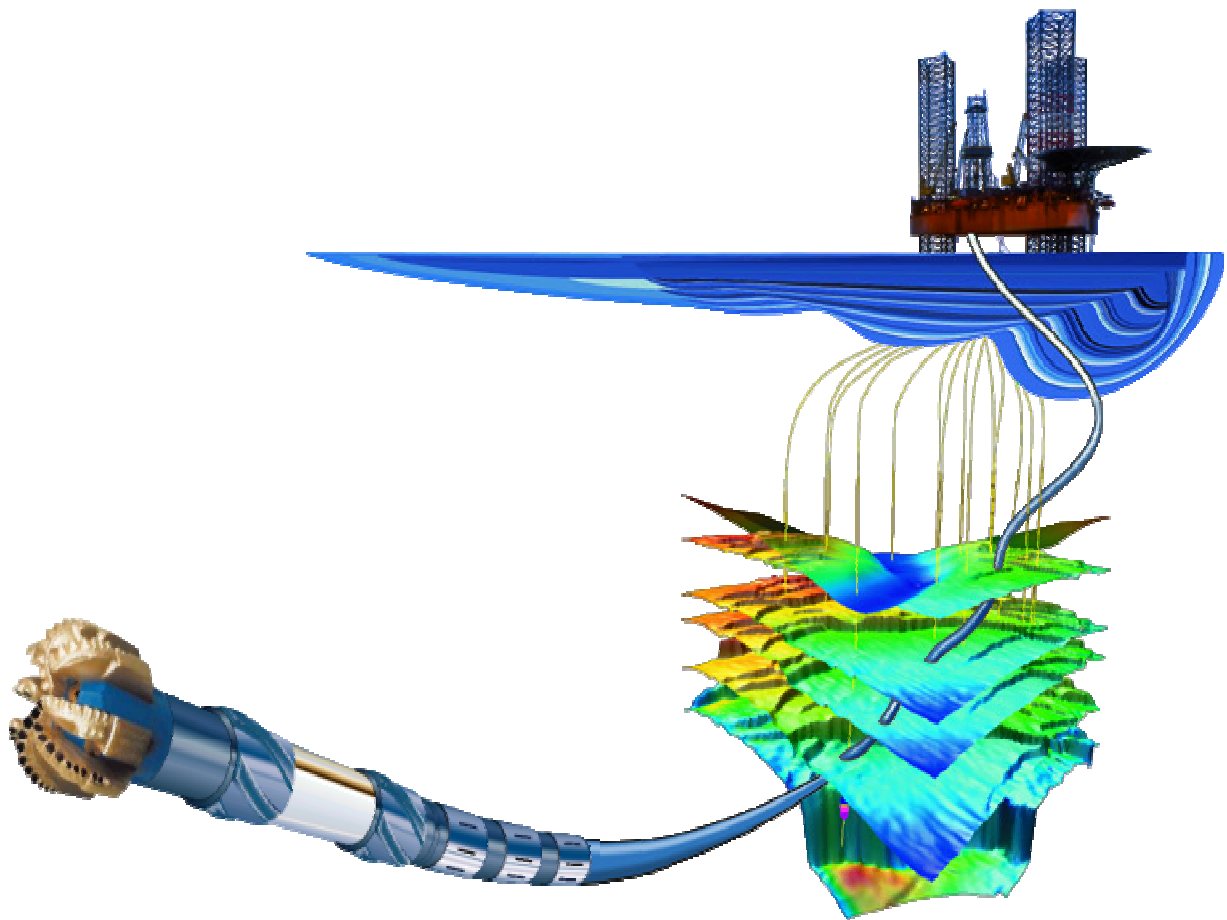
Survey Error Model: SLB ISCWSA version 24 *** 2-D 95.00% Confidence 2.4477 sigma

Surveying Prog:

<u>MD From (m)</u>	<u>MD To (m)</u>	<u>EOU Freq</u>	<u>Survey Tool Type</u>	<u>Borehole -> Survey</u>
0.00	77.00	Act-Stns	SLB_MWD-STD-Depth Only	Fermat-1 -> Fermat - 1 MWD Surveys DMAG
77.00	2382.70	Act-Stns	SLB_MWD-STD	Fermat-1 -> Fermat - 1 MWD Surveys DMAG
2382.70	2783.95	Act-Stns	SLB_MWD+DMAG	Fermat-1 -> Fermat - 1 MWD Surveys DMAG
2783.95	3569.38	Act-Stns	SLB_MWD-STD	Fermat-1 -> Fermat - 1 MWD Surveys DMAG
3569.38	3585.00	Act-Stns	SLB_BLIND+TREND	Fermat-1 -> Fermat - 1 MWD Surveys DMAG

**Italicized stations are NOT used in position calculations.*

3. Drilling & MWD/LWD Run Summary



End of Well Drilling Summary

14 December 2008 to 10 January 2009

Fermat-1 Objectives:

Fermat-1 will be drilled by the jack-up mobile offshore drilling unit (MODU) West Triton, which is operated by Seadrill Limited.

Fermat-1 is a vertical exploration well with the objective of intersecting and exploring the Flaxman formation with sandstones and siltstones; and the Waare formation (Unit C) which are made up of interbedded sandstone, siltstone and shale. The primary and secondary targets tops are expected at 2938m BRT and 3228m BRT.

BHA # 2: Rotary Assembly
444.5mm – 17 ½ " Hole Section (125m MD – 999m MD)

The following Rotary Assembly was made up and run in:-

17 1/2" Hughes Milled Tooth Rock Bit
Float Sub
9" Telescope* MWD
9" sonicVISION* LWD
17 1/2" Stabiliser
9" DC
17 1/2" Stabiliser
9" DC
Crossover
8" DC
8" Jar
8" DC
Crossover
15 x 5" HWDP
5" DP to surface

Bit Grading: 2 – 2 – LT – G – E – I – LN – TD

MWD/LWD Summary

TeleScope was programmed with 12Hz/3bps telemetry configuration to provide RT GR, D&I; while the SonicVISION RT Delta-T compression were transmitted uphole as well as recorded in Memory mode. A good SHT was performed after the BHA was made up before RIH. The BHA tagged cement at 115m from where drilling commenced ahead to 999m BRT section TD as per program. D&I survey of the borehole was taken every stand down.

High Shocks and Stick & Slip were experienced throughout the whole run. Informed Client representative at the wellsite to adjust drilling parameters (i.e. WOB & RPM). Shocks reduced at little but Stick & Slip were persistent throughout the whole run.

Upon reaching TD, downlinking to the sonicVISION to change to configuration to 1sec before tripping out was unsuccessful.

* Mark of Schlumberger

Once BHA on surface, noticed the Sonic transmitter shield broke off downhole. Looking at techlogs and Memory data, it was determined that the transmitter shield broke off downhole at approximately 750m MD.

BHA # 3: Rotary Assembly

311.15mm – 12 ¼" Hole Section (999m MD – 2396m MD)

The following Rotary Assembly was made up and run in: -

- 12 ¼" Reed Hycalog PDC Bit
- Float Sub
- 8 ¼" arcVISION* LWD
- 8 ¼" TeleScope* MWD
- 8 ¼" sonicVISION* LWD
- 12 ¼" Stabilizer
- 5 x 8" DC
- 8" Jar
- 8" DC
- Crossover
- 15 x 5" HWDP
- 5" DP to surface

Bit Grading: 5 – 3 – RO – A – X – 1 – LT – BHA

MWD/LWD Summary

Real-time telemetry configuration for this BHA consisting of D&M TeleScope*, sonicVISION* and arcVISION* was 12Hz/6bps.

SHT was successful and BHA RIH. Once tagged cement at 965m MD drilled out to shoe, through rat hole and then new formation at 999m MD.

There were high stick & slip throughout the whole run once again. Once again, informed Client representative at the wellsite to adjust drilling parameters but they couldn't sacrifice ROP by reducing WOB. Presented the formal Shock & Vibration notification letter to the client and they signed and acknowledged it.

The wellbore deviation kept increasing and the client was quite concerned. They made a decision to POOH for 3 reasons (whichever came first)

1. The Inclination increased to greater than 4.5degrees.
2. The bit became bald.
3. If they could drill up to 2400m MD.

* Mark of Schlumberger

The Inclination was 3.36degrees at approximately 2400m and they decided to POOH and use a motor for a corrective run with a new BHA in the following run.

The sonicVISION was downlinked successfully to the 1sec configuration for the trip-out.

Recorded mode data was dumped and field print logs were delivered.

**BHA#4 Steerable Motor Assembly
12 ¼" Hole Correction Section (2396mMD – 2807mMD)**

The following 12 ¼" Steerable Motor Assembly was made up and run in:

12 ¼" PDC Bit (Hycalog Type: RSX616-A10, Jets: 3x13's & 3x15's)
A962M7848GT PowerPak Motor w/1.15° bend (12 1/8" Sleeve Stabiliser)
8" Float Sub
8 ¼" arcVISION* LWD
8 ¼" TeleScope* MWD
8 ¼" sonicVISION* LWD
12 3/16" String Stabilizer
5 x 8" DC
8" Jar
8" DC
Crossover
15 x 5" HWDP
5" DP to surface

Bit Grading: 1 – 1 – LT – G – X – I – BU – TD

Drilling Summary

The BHA was made up; 1.15° bend set in the Motor and successfully shallow hole tested for the MWD/LWD tools, and then RIH.

At 2345m MD, commenced washing and reaming down to a depth of 2380m MD at 800GPM and 50 RPM, when a WOB of approximately 3klb was observed. Continued to ream down until 2396m MD, where bottom was tagged and commenced to break in the bit.

After breaking in the bit, flow was brought up to 900GPM and a slide to 45° Azimuth was attempted. Could not get orientated into a consistent slide until a depth of 2407m MD, whence a reasonably consistent slide of 15 metres at an average azimuth of 50° was achieved. During slides, the top drive could not be used to turn the Tool Face on bottom. In order to get orientated, an estimate of reactive torque had to be dialed in off bottom, and once on bottom, variations of WOB and differential pressure was used to bring the Tool Face around to the approximate desired Orientation. Several attempts were made to get the right amount of reactive torque compensation set in the Tool Face before continuing to slide.

Drilling in Rotary gave an ROP of between 30 to 40 m/hr through the Belfast A Mudstone formation. High stick/slip was being observed; varying RPM from 40 to 80 rpm only had a

marginal improvement in stick/slip. Altering weight on bit had no noticeable improvement with Stick/slip.

At 2700m MD, could not maintain a consistent slide for more than 50 cm. By this stage, the rig crew had found a procedure to enable controlled rotation of the top drive on bottom; however it seems the formation was inter-bedded. An orientation would be established with consistent parameters, then the tool face would drift away, differential pressure would alter, and ROP would change. Would then re-establish an orientation for the new conditions, and the reverse would soon occur. The slide was abandoned after 5 metres, and re-attempted successfully at 2740m MD where more consistent formation was encountered.

The trip out of the hole was uneventful, except at 1132m MD, where 15klbf overpull was encountered. The trip tanks volumes also increased indicating swabbing of the formation. Top drive was connected, pumped through the obstruction without rotation, run back down with pumps off, observed no obstruction, and continued to POOH.

On surface, there were indications that the bit was beginning to Ball Up, which could explain why rotary ROP was dropping off to 20m/hr just prior to TD of the 12 ¼ Section.

BHA # 6: Rotary Assembly**215.9mm – 8 1/2" Hole Section (2807m MD – 3585m MD)**

The following Rotary Assembly was made up and run in: -

- 8 1/2" Halliburton PDC Bit
- Near Bit Stabilizer
- 6 3/4" arcVISION* LWD
- 6 3/4" TeleScope* MWD
- 6 3/4" sonicVISION* LWD
- 6 3/4" adnVISION* LWD
- 10 x 6" DC
- 6" Jar
- 6" DC
- Crossover
- 15 x 5" HWDP
- 5" DP to surface

Bit Grading: 2 – 1 – CT – N – X – 1 – ER – TD

MWD/LWD Summary

BHA consists of TeleScope, arcVISION*, sonicVISION* and adnVISION* to provide GR, Resistivity, APWD, Delta-T Compressional, Density, Neutron Porosity and UltraSonic Caliper in Real Time.

SHT performed successfully without Radioactive source, then proceeded to load RA source into ADN tool. Initial source loading was unsuccessful (source attached to the handling tool didn't seem to seat into source receptacle correctly and attempts to retrieve the source with handling tool back up to the Transfer Shield were unsuccessful.

Called Operation support centre in town for solutions and they suggested to try free the handling tool with source attached, bring the source back into the Transfer shield, lock it in, and inspect to ensure the fishing head & handling tool head isn't damaged, etc.

The driller came out to help the LWD crew and he pulled the slack tugger line with him body strength (not using the air supply) and the handling tool with source came free. Locked the source back into the Transfer shield, checked that nothing was damaged and proceeded to load the source into the receptacle once again.

Once again, high Stick Slip experienced throughout whole run, tried mitigating with drilling parameters. Once BHA on surface, physically checked all tools but no signs of damage to ILS, transmitter shields, wearbands, ROP.

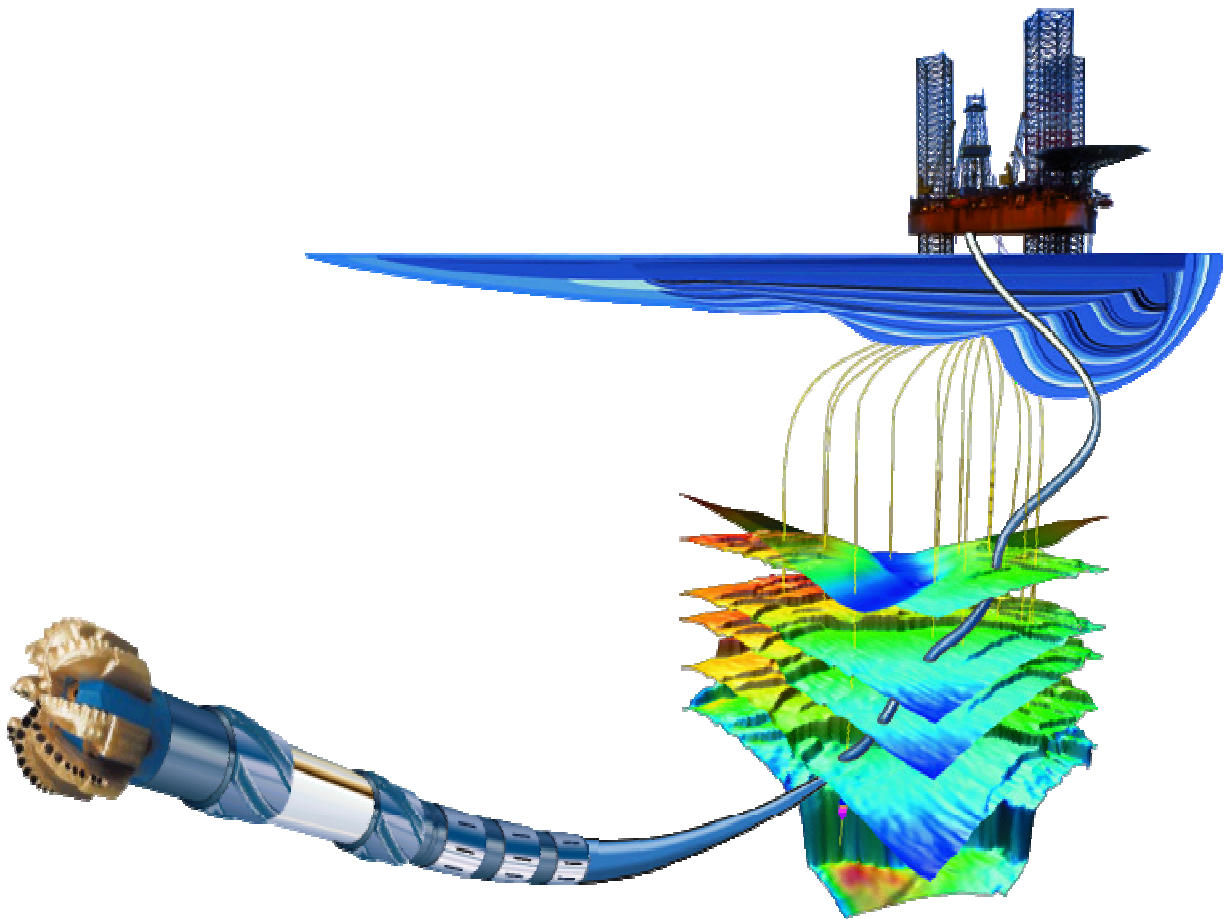
Memory data dumped successfully from tools and processed accordingly.

MWD/LWD Run Summary

Run	Hole Size (in)	MWD/LWD Services	Start Depth (m)	Stop Depth (m)	Distance (m)	Start Date	Stop Date
1	26"	None	76.0	125.0	49.0	14-Dec-08	14-Dec-08
2	17 ½"	sonicVISION*	125.0	999.0	874.0	15-Dec-08	17-Dec-08
3	12 ¼"	VISION* Resistivity – sonicVISION*	999.0	2396.0	1397.0	20-Dec-08	26-Dec-08
4	12 ¼"	VISION* Resistivity – sonicVISION*	2396.0	2807.0	411.0	26-Dec-08	29-Dec-08
5	8 ½"	VISION* Service – sonicVISION*	2807.0	3585.0	778.0	2-Jan-09	7-Jan-09

Run	Hours BRT	Drilling Hours	Circulating Hours	Max Temp (°C)	Trip for MWD	Failure type
2	47.5	32.5	35.5	75.0	No	Sonic Transmitter shield broke off
3	148.0	109.5	113.0	65.0	No	None
4	68.0	19.3	29.7	77.0	No	None
5	120.33	42.4	72.6	80	No	ADN6 Source loading

4. Equipment Run Reports



Rig Name: West Triton
Well Name: Fermat-1

Date In			Date Out	
	15-Dec-2008	2:00PM	17-Dec-2008	1:30PM
Depth (MD):	119.0	m	to	999.0 m
Depth (TVD):	119.0	m	to	999.0 m
Inclination:	0.00	deg	to	2.28 deg
Azimuth:	0.00	deg	to	226.38 deg
Hole Size:	17.50	in		
Last Casing Size:	30.000	in		
Last Casing Depth:	125.0	m	(MD)	
Tool Face Arc:				
Total Face Angle:	0.00	deg		

Drilling Distance:	883.00 m	Drilling Hours:	32.50 hrs
Rotary Drilling Distance:	883.00 m	Rotary Drilling Hrs:	32.50 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	116.00 m	Reaming Hours:	2.50 hrs
		Hrs Below Rotary:	47.50 hrs
		Total Pumping Hrs:	35.50 hrs

		Min DLS:	0.00 deg/30 m
North Ref Used:	Grid North	Max DLS:	0.00 deg/30 m
Magnetic Dec:	9.870 deg	Max DLS Depth:	0.0 m
Grid Correction:	-0.030 deg	Surface Screen:	No
Total Correction:	9.900 deg	DFS Used:	No
Est. Mag. Int:	deg	Inline Filter:	No

Rig Type: Jack Up
Water Depth:
Air Gap:
RKB Height:
Ground Elevation:

Pump Type:	Triplex
Pulse Damp Press:	700 psi
Number of Pumps:	3
Pump Line ID:	6.50 in
Pump Output:	5.85 gal/US/stroke
Pump Stroke Len:	14.00 in

A vertical well and this 17.5in section to a planned TD of 1000m MD, providing GR & Sonic projection in RT. This section is using Bentonite as weighting material in the mud. There is no KCL.

Cell Manager: Joshua Seevaratnam
Crew: San thida Aung, LWD
David Gibson, MWD
Josh Seevaratnam, Cell Manager

Manufacturer:	Bit to Bend Dist:	m
Motor Type:	Bearing Play In:	in
Motor Size:	Bearing Play Out:	in
Serial No.:	Bent Sub Angle:	deg
Lobe Config:	Bent HSG Angle:	deg
Stage Length:	m	
Rubber:		
Sleeve Position:		
Sleeve Size:	in	
Bearing Type:		

RSS Manufacturer:
 RSS Type:
 RSS SN:
 RSS Size:
 Pulse Ht Threshold:
 Min Pulse Width:
 Max Pulse Width:
 Conn Phase Angle: deg
 Rise Time Const:
 Fall Time Const:
 Digit Time:

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	12 bps	Slimpulse Pulser Config:	
Mod Gap:	0.12000 in	Turbine Config:	600-1200 galUS/min	Frequency:	24 Hz	Pred Sig Strength @ TD:	psi
SPT Type:							

Rig Name: West Triton
Well Name: Fermat-1

Turbine RPM @ Min Flow Rate:	4,219 rpm	Min Flow Rate:	3,011.00galUS/min
Turbine RPM @ Max Flow Rate:	4,180 rpm	Max Flow Rate:	3,011.21galUS/min

Mud Type:	Sea Water	Mud Clean:	Yes	pH:	8.50
Mud Company:	Halliburton	LCM Type:		Chlorides:	ppm
Mud Brand:		LCM Size:		Sand Content:	%
Funnel Viscosity:	480.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	%
Plastic Viscosity:	3.00 cp	Weighting Material:	Bentonite	Percent Oil:	%
Yield Point:	84.00 lbm/100ft2	Mud Weight:	8.80 lbm/galUS		
Mud Resistivity:	ohm-m				

Manufacturer:	Hughes Christianson	Total Revs:	IADC Code:	6060161
Model:	MXL0T00	Stick/Slip:	Jets (/ 32 in):	3X20
Type:	Milltooth	Reason Pulled:	Total Depth/Casing Depth	Bit TFA: 0.92 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	2.00	LT	G	E	I	LN

Sync Hours:	29.37	hrs	Downhole Noise:	No	Run Failed:	Yes	
Jamming:	No	0.00 hrs	Surface System Failure:	No	D&M Trip:	No	
Surface Vibration:	No		Surface Noise:	No	Low Oil Flag:	No	0.00 hrs
Trans Fail:	No		H2S in Well:	No	Filter Screen/Plug Shear:	No	

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

If not, why?:

Drilling with good signals through the run and maximum ROP 88 mphr. Experienced some shocks whilst drilling, but mostly whilst backreaming. Informed Co-man & driller, and they adjusted backreaming parameters. ROP was slowing down while drilling due to formation and bring back to 80m/h suddenly. Towards the end of the run (just before reaching TD), sudden loss in Standpipe pressure/pump pressure. Informed coman and driller. Flow rate constant, stand pipe pressure and turbine rpm drop down frequently. Keep informing co-man and driller .Once TD, pressure kept dropping. Throughout the run, we have got maximum shock level 2 frequently. Especially while they reaming and drilling hard formation.

2 of 4



Job Number: 08ASQ0034
Company Rep: Sean Defreitas,Peter Sheehan
Run Number: 1
driller.

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Job Number: 08ASQ0034

Company Rep: Sean Defreitas,Peter Sheehan

Run Number: 1

Company: BEACH PETROLEUM LTD

Location: MEA-APG-ASQ

Rig Name: West Triton

Well Name: Fermat-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
H524743-61958	0.00 hrs	35.50 hrs		9.25 in
H524743-61959	0.00 hrs	35.50 hrs		9.25 in
MDC-FG-YX06	0.00 hrs	35.50 hrs	9.2C02	9.25 in
SD9C-AA-42793	0.00 hrs	35.50 hrs	6.6	9.25 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
MWD	Gamma Ray	TeleScope	35.50 hrs		883.0 m	47.50 hrs		883.0 m	
LWD	Compressional DT	SonicVision	35.50 hrs		883.0 m	47.50 hrs		883.0 m	

Job Number:	08ASQ0034	Company:	BEACH PETROLEUM LTD
Company Rep:	Sean Defreitas,Peter Sheehan	Location:	MEA-APG-ASQ
Run Number:	1	BHA Type:	Rotary Steerable

Rig Name: West Triton
Well Name: Fermat-1

Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Len
								OD	Len, m	OD	Size	Type	Size	Type	
1	BIT	Hughes Christianson	Milltooth	6060161	0.39	m	17.50						7 5/8"	PIN	0.39
2	FLOAT SUB		Float Sub	SSSD7202	1.22	m	9.50				7 5/8"	BOX	7 5/8"	PIN	1.61
3	MWD	D&M	TeleScope	YX06	8.54	m	9.25				7 5/8"	FH BOX	7 5/8"	PIN	10.15
4	LWD	D&M	SonicVISION	42793	7.72	m	9.25				7 5/8"	BOX	7 5/8"	FH PIN	17.87
5	STABILIZER		Stabilizer	207A210	2.17	m	17.50				7 5/8"	BOX	7 5/8"	PIN	20.04
6	DRILL COLLAR		Driller collar	16523	9.40	m	9.50				7 5/8"	BOX	7 5/8"	PIN	29.44
7	STABILIZER		Stabilizer	205A37	1.71	m	17.50				7 5/8"	BOX	7 5/8"	PIN	31.15
8	DRILL COLLAR		Drill collar	1T9	9.42	m	9.50				7 5/8"	BOX	7 5/8"	PIN	40.57
9	DRILL COLLAR		Drill collar	16527	9.44	m	9.50				7 5/8"	BOX	7 5/8"	PIN	50.01
10	CROSSOVER		Crossover	sssd7125	1.22	m	9.50				6 5/8"	BOX	7 5/8"	PIN	51.23
11	DRILL COLLAR		Drill collar	7t8	47.24	m	8.25				6 5/8"	BOX	6 5/8"	PIN	98.47
12	JAR		Jar	1762-1380	9.68	m	8.00				6 5/8"	BOX	6 5/8"	PIN	108.15
13	DRILL COLLAR		Drill collar	5t8	9.46	m	8.25				6 5/8"	BOX	6 5/8"	PIN	117.61
14	CROSSOVER		Crossover	sssd7132	0.93	m	8.25				5 1/2"	BOX	6 5/8"	PIN	118.54
15	HWDP		HWDP	5120296	56.23	m	5.50				5 1/2"	BOX	5 1/2"	PIN	174.77

Predicted BHA Tendency: _____

Hookload Out:	Wt Below Jars:
Pickup Out:	Wt Above Jars:
Slack Weight:	Total Air Wt:

	Mid Pt	Blade			Gauge		
Stab Description	to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port			Bit to Measurement Port		
MWD-TeleScope	3.40	m	TeleScope-Gamma Ray	5.10	
LWD-SonicVISION	14.30	m	SonicVISION-Compressional D14	7.74	

Job Number:

08ASQ0034

Company Rep:

Sean Defreitas,Peter Sheef

Run No:

1

Company:

BEACH PETROLEUM LTD

Location:

MEA-APG-ASQ

Rig Name:

West Triton

Well Name:

Fermat-1

Depth in m						
From	To	Elapsed	From	To	IADC Activity	Description
15-Dec-2008						
00:00	01:30	1.50	0.0	0.0	Run casing / cement	Running casing
01:30	03:00	1.50	0.0	0.0	Run casing / cement	Finished up casing running
03:00	04:00	1.00	0.0	0.0	Other	Testing BOP offline
04:00	18:30	14.50	0.0	0.0	PU / LD BHA / Tripping	Make up BHA,pick up drill pipes
18:30	20:00	1.50	0.0	119.0	Reaming / Hole opener / Unc	Dril out cement,shoe,
20:00	21:00	1.00	119.0	143.0	Drilling	Drilling ahead with 80rpm,560psi
21:00	22:00	1.00	143.0	143.0	PU / LD BHA / Tripping	pick up jar stand from derrick
22:00	00:00	2.00	143.0	166.0	Drilling	Drill ahead,1200gpm,2500psi
16-Dec-2008						
00:00	12:00	12.00	166.0	434.0	Drilling	Drill ahead from 166m to 434m
12:00	00:00	12.00	434.0	824.0	Drilling	Drill ahead from 434m to 824m
17-Dec-2008						
00:00	05:30	5.50	824.0	999.0	Drilling	Continue drill to TD
05:30	06:00	0.50	999.0	999.0	Circulate / Condition mud	Pumps,circulating hole clean,
06:00	06:30	0.50	999.0	999.0	Other	Downlink data
06:30	07:30	1.00	999.0	999.0	Reaming / Hole opener / Unc	hole clean, observed pressure lost and shut down pumps
07:30	12:00	4.50	999.0	31.0	PU / LD BHA / Tripping	Commence POOH
12:00	15:30	3.50	31.0	20.0	PU / LD BHA / Tripping	POOH to surface
15:30	16:00	0.50	0.0	0.0	Lubricate rig / Service	Top drive inspection
16:00	00:00	8.00	0.0	0.0	Run casing / cement	Running casing 13 3/8"

Job Number: 08ASQ0034 **Company:** BEACH PETROLEUM LTD **Rig Name:** West Triton
Company Rep: Sean Defreitas,Peter Sheehai **Location:** MEA-APG-ASQ **Well Name:** Fermat-1
Run Number: 1

Date/Time	Depth		Description
15-Dec-2008 12:00AM	0.0	m	Check the surface equipments, prepare the tools to run in hole
15-Dec-2008 3:00AM	0.0	m	Tools laid out on deck
15-Dec-2008 4:00AM	0.0	m	strapped tools, depassivated batteries, Loaded batteries monitor tools
15-Dec-2008 6:00AM	0.0	m	Primary MWD (telescope) laid on to deck was packed under casing on boat.
15-Dec-2008 6:20AM	0.0	m	place magnet in sonic after tool was programmed
15-Dec-2008 8:00AM	0.0	m	Re-check all sensors
15-Dec-2008 9:00AM	0.0	m	Config all surface system and parameters
15-Dec-2008 11:00AM	0.0	m	Re-program sonic
15-Dec-2008 11:20AM	0.0	m	Re-place magnet in sonic
15-Dec-2008 12:00PM	0.0	m	sonic initialized
15-Dec-2008 1:18PM	0.0	m	Picked up powerpulse
15-Dec-2008 1:31PM	0.0	m	picked up sonic
15-Dec-2008 1:40PM	0.0	m	sonic and powerpulse torqued up
15-Dec-2008 2:00PM	0.0	m	Tried communicating with Sonic to dump RM data, unsuccessful, troubleshooting
15-Dec-2008 2:00PM	0.0	m	bit below rotary
15-Dec-2008 2:44PM	0.0	m	SHT completed
15-Dec-2008 3:00PM	0.0	m	RIH and Make up rest of BHA.
15-Dec-2008 4:42PM	69.1	m	reset the depth..hole depth 125,bdepth 69
15-Dec-2008 5:00PM	0.0	m	Successfully dumped RM data from Sonic9, start RM processing
15-Dec-2008 6:00PM	115.0	m	set depth,
15-Dec-2008 7:55PM	144.7	m	stand down,tag cement @17:48pm
15-Dec-2008 11:00PM	166.3	m	Drilling ahead with ROP7m/hr, tflow 3011 with 68strokes/min for each pump
16-Dec-2008 12:00AM	171.4	m	Drilling ahead with 2m/hr ROP.
16-Dec-2008 12:30AM	173.9	m	stand down @ 12:31am,1.43m KD
16-Dec-2008 1:03AM	173.9	m	Took first survey ,ToolH and Dip angle out.
16-Dec-2008 2:13AM	183.4	m	Drill ahead with ROP 6m/hr, swob1.1klbf, srpm143, stick slips 48
16-Dec-2008 3:01AM	191.0	m	Drill ahead with ROP 15m/hr,SWOB0.5, srpm143, stickslip 54
16-Dec-2008 4:07AM	204.0	m	Take every stand and drilling ahead with rop 40m/hr,tflow 136,wob1 klbf
16-Dec-2008 4:30AM	228.0	m	Continue drilling with ROP 50m/her,tflow3011,no shocks, crpm 142,stick slips 18
16-Dec-2008 5:50AM	262.7	m	KD, ream, connection & survey
16-Dec-2008 7:50AM	290.4	m	Reboot IDEAL because RT depth log not updating, problem solved
16-Dec-2008 9:06AM	361.0	m	Drilling ahead, ROP 58m/h, SWOB 7kft.lbf, Stickslip=63rpm,shocks=0
16-Dec-2008 11:09AM	440.5	m	Ran out of drill water, re-filling mud pits
16-Dec-2008 2:49PM	525.6	m	Noticed level 2 shock on Sonic, inform Co-man & driller, decision to lower SRPM whilst back-reaming
16-Dec-2008 5:43PM	617.0	m	got shock level 1 on Sonic again while back reaming. Keep watching to inform Co-man and driller again.
16-Dec-2008 5:46PM	626.0	m	Drilling ahead with ROP 80, swob20, TFLOW3000, rpm 153,stickslip78, No shock at that moment
16-Dec-2008 6:51PM	677.3	m	Take survey
16-Dec-2008 7:59PM	712.0	m	Drill ahead with rop 77m/hr,tflow 3011,68strokes for each pump.stick slip 21
16-Dec-2008 8:24PM	735.0	m	Sonic shock level 1 @726m, wait and see to inform co-man. ROP slow down due to start changing formation.
16-Dec-2008 8:48PM	738.0	m	Continue drilling with good signals. No shock, tflow 3011, rop50m/hr,crpm141,take survey in each stand
16-Dec-2008 9:29PM	768.0	m	Drill ahead with ROP 80mp/hr, tlow3300
16-Dec-2008 10:15PM	799.0	m	Drill ahead with ROP80mp/hr,tflow3011,rpm 144,wob5,hkld 147
16-Dec-2008 10:34PM	823.6	m	Shock level 1for 5 second. Inform driller
16-Dec-2008 11:02PM	829.0	m	Continue drilling, got shock level 1sonic, Inform OSC,RPM 142,RPM85,gpm 795.48gal/min

Date/Time	Depth		Description
16-Dec-2008 11:55PM	861.0	m	Contiue drilling with ROP80, rpm 144
17-Dec-2008 12:00AM	867.0	m	Midnight depth
17-Dec-2008 1:55AM	942.6	m	Continue drill with rop 80
17-Dec-2008 2:26AM	951.0	m	Shock level 2, tell the driller to change parameters, informed co-man
17-Dec-2008 2:42AM	951.4	m	shock level 2 , inform driller and coman to reduce RPM , and wob,current wob 4,rpm 156
17-Dec-2008 2:45AM	953.0	m	Back to level 1 and rop bring back to 80rpm, wob 14, rpm 112
17-Dec-2008 3:16AM	972.0	m	Pressure loss just before stand down, ROP suddently up, assumed loss of formation or drillstring
17-Dec-2008 3:32AM	975.0	m	Pressure dropping, inform driller and keep waiting for the progress SPPA now 1143psi.TRPM stable.
17-Dec-2008 3:37AM	977.5	m	Pressure bring back again. Keep Informing driller and waiting whether wash out or not .
17-Dec-2008 3:57AM	986.0	m	Total flow didnt change, trpm and pressure dropped. It could be wash out above MWD. Informed coman and driller.
17-Dec-2008 4:01AM	990.0	m	SPPA drop to 1064. ROP 36, wob 20, rpm 157,stick slip 33
17-Dec-2008 4:25AM	999.6	m	Call TD for 17.5in section
17-Dec-2008 5:19AM	999.6	m	DL to sonic change to 1 sec trip out
17-Dec-2008 5:45AM	974.0	m	Not success in DL, tried DL twice
17-Dec-2008 6:59AM	972.0	m	Loss in SPP
17-Dec-2008 7:48AM	777.0	m	POOH
17-Dec-2008 1:00PM	20.0	m	Tools @ Rotary table, noticed transmitter broken off on Sonic9, L/D tools
17-Dec-2008 2:30PM	0.0	m	Tried communicating with Sonic9 to dump RM data, no success, troubleshooting
17-Dec-2008 5:00PM	0.0	m	Successfully communicated with Sonic9, dump RM data, start RM processing
17-Dec-2008 8:00PM	0.0	m	Finished processing all RM data, upload all required on InterAct, informed DCS



Job Number: 08ASQ0034
Company Rep: Sean Defreitas,Peter Sheehan
Run Number: 1

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

	17-Dec-2008 3:41 AM	16-Dec-2008 8:50 PM	16-Dec-2008 2:49 PM	16-Dec-2008 9:01 AM	16-Dec-2008 1:44 AM
Field Engineer	San thida Aung	San thida Aung	Josh Seevaratnam	Josh Seevaratnam	San thida Aung
Depth	979.00 m	739.00 m	525.60 m	361.00 m	180.00 m
Avg ROP	12.96 m/hr	27.42 m/hr	27.42 m/hr	27.42 m/hr	27.42 m/hr
On Bottom ROP	97.22 m/hr	40.12 m/hr	40.12 m/hr	40.12 m/hr	40.12 m/hr
Flow Rate	3,011.00 galUS/min	3,011.00 galUS/min	3,011.00 galUS/min	3,011.21 galUS/min	3,011.21 galUS/min
Turbine RPM	4,219 rpm	4,180 rpm	4,180 rpm	4,180 rpm	4,180 rpm
Surface RPM	154 rpm	141 rpm	153 rpm	139 rpm	142 rpm
WOB Rotating	25.00 klbm	23.00 klbm	13.00 klbm		.50 klbm
WOB Sliding					
DH WOB					
Surface Torque				2.70 kft.lbf	.69 kft.lbf
DH Torque					
Hookload	136 klbm	123 klbm	117 klbm	113 klbm	102 klbm
PickUp Weight					
Slack Weight					
Friction					
SPP On Bottom	1,164.00 psi	1,259.00 psi	1,241.00 psi	1,185.00 psi	1,170.00 psi
SPP Off Bottom		1,253.00 psi	1,175.00 psi	1,075.00 psi	1,165.00 psi
Diff Pressure		6 psi	66 psi	110 psi	5 psi
BH Temperature	75.00 degC	72.00 degC	72.00 degC		72.00 degC
Total Shocks (k)					
Max Shock Level	2	1	2		
Max Shock Duration	60	5			
Torsional Vib					
Lateral Vib					
Axial Vib					
CRPM	153 rpm	146 rpm	154 rpm	139 rpm	144 rpm
Stick/Slip			42	57	33
Formation	Sandstone	Sandstone	Sandstone	Limestone	Limestone
Signal Strength	64.00 psi	52.00 psi	68.90 psi	59.00 psi	66.00 psi
Percent Signal Conf	95 %	91 %	86 %	85 %	99 %

Job Number:

08ASQ0034

Company Rep:

Rocco Roussow, Peter Sheehan

Run Number:

2

Company:

BEACH PETROLEUM LTD

Location:

MEA-APG-ASQ

Rig Name:

West Triton

Well Name:

Fermat-1

Run Information

Date In		Date Out		Drilling Distance:		Drilling Hours:	
20-Dec-2008 9:00AM		26-Dec-2008 1:00PM		1,376.00 m		109.50 hrs	
Depth (MD):		2396.0 m		Rotary Drilling Distance:		109.50 hrs	
999.0 m		to		1,376.00 m		Rotary Drilling Hrs:	
Depth (TVD):		2393.8 m		Sliding Distance:		0.00 hrs	
999.0 m		to		0.00 m		Sliding Hours:	
Inclination:		3.36 deg		Reaming Distance:		1.50 hrs	
2.28 deg		to		88.00 m		Reaming Hours:	
Azimuth:		228.47 deg				Hrs Below Rotary:	
226.38 deg						148.00 hrs	
Hole Size:						Total Pumping Hrs:	
12.25 in						113.00 hrs	
Last Casing Size:				North Ref Used:		Min DLS:	
13.375 in				Grid North		0.00 deg/30 m	
Last Casing Depth:		(MD)		Magnetic Dec:		Max DLS:	
987.0 m				9.870 deg		0.01 deg/30 m	
Tool Face Arc:				Grid Correction:		Max DLS Depth:	
Total Face Angle:				-0.030 deg		1,023.0 m	
				Total Correction:		Surface Screen:	
				9.900 deg		No	
				Est. Mag. Int:		DFS Used:	
				0.00 deg		No	
						Inline Filter:	
						No	

Rig Information

Rig Type: Jack Up		Pump Type: Triplex	
Water Depth: 38.00 m		Pulse Damp Press: 700 psi	
Air Gap: 15.00 m		Number of Pumps: 3	
RKB Height: 42.90 m		Pump Line ID: 6.50 in	
Ground Elevation: 80.85 m		Pump Output: 5.85 galUS/stroke	
		Pump Stroke Len: 14.00 in	

Run Objective

Drill vertical hole to 2700m MD providing D&I, APWD, GR, Res & Sonic services in RT.

D&M Crew List:

Cell Manager: Joshua Seevaratnam
Crew: San thida Aung, LWD
David Gibson, MWD
Josh Seevaratnam, Cell Manager

DH Motor Information

Manufacturer:	Bit to Bend Dist:	m
Motor Type:	Bearing Play In:	in
Motor Size:	Bearing Play Out:	in
Serial No.:	Bent Sub Angle:	deg
Lobe Config:	Bent HSG Angle:	deg
Stage Length: m		
Rubber:		
Sleeve Position:		
Sleeve Size: in		
Bearing Type:		

RSS Information

RSS Manufacturer:
RSS Type:
RSS SN:
RSS Size:
Pulse Ht Threshold:
Min Pulse Width:
Max Pulse Width:
Conn Phase Angle: deg
Rise Time Const:
Fall Time Const:
Digit Time:

MWD Configuration

Mod Type: QPSK	Int Tool Face Offset: deg	Bit Rate: 6 bps	Slimpulse Pulser Config:
Mod Gap: in	Turbine Config: galUS/min	Frequency: 24 Hz	Pred Sig Strength @ TD: psi
SPT Type: HA			

Rig Name: West Triton
Well Name: Fermat-1

	<u>Min</u>	<u>Max</u>	<u>Avg</u>	Total DH Shocks (k):	0 k
BH Temperature:	37.00 degC	65.00 degC	51.20 degC	Max Shock Level:	3
Surface RPM:	99.00 rpm	235.00 rpm	168.60 rpm	Max Shock Duration:	900 sec
ROP:	6.58 m/hr	20.08 m/hr	12.85 m/hr	Checkshot Type:	
Surface Torque:	0.03 kft.lbf	0.31 kft.lbf	0.17 kft.lbf	Checkshot Depth:	m
Flow Rate:	800.00 galUS/min	1,000.00 galUS/min	914.50 galUS/min	Checkshot Incl:	deg
WOB Sliding:				Checkshot Azim:	deg
				H2S In Well:	No
Average Pump Pressure:	46 psi				
Turbine RPM @ Min Flow Rate:	3,359 rpm	Min Flow Rate:	800.00galUS/min	SPP Off Bottom:	1,520.00 psi
Turbine RPM @ Max Flow Rate:	3,438 rpm	Max Flow Rate:	1,000.00galUS/min	SPP On Bottom:	1,600.00 psi

Mud Type:	Water Base	Mud Clean:	Yes	pH:	8.80
Mud Company:	Halliburton	LCM Type:		Chlorides:	80,387.00 ppm
Mud Brand:		LCM Size:		Sand Content:	%
Funnel Viscosity:	53.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	5.10 %
Plastic Viscosity:	14.00 cp	Weighting Material:	Barite	Percent Oil:	%
Yield Point:	37.00 lbm/100ft2	Mud Weight:	9.70 lbm/galUS		
Mud Resistivity:	0.08 ohm-m				

Manufacturer:	Hycalog	Total Revs:		IADC Code:	
Model:		Stick/Slip:		Jets (IUS/stroke):	
Type:	PDC	Reason Pulled:	Change Bottom Hole Assembly	Bit TFA:	0.00 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
5.00	3.00	RO	A		I	LT

Sync Hours:	92.16	hrs	Downhole Noise:	No	Run Failed:	No	
Jamming:	No	0.00 hrs	Surface System Failure:	No	D&M Trip:	No	
Surface Vibration:	No		Surface Noise:	No	Low Oil Flag:	No	0.00 hrs
Trans Fail:	No		H2S in Well:	No	Filter Screen/Plug Shear:	No	

Reason for POOH: Change Bottom Hole Assembly

Drilling with good signal throughout the run and maximum ROP 40mphr. Experienced some very high shocks (Level3) and high stick slips. Informed Co-man & driller, and got the Co-man to sign & acknowledge the S&V notification letter. The maximum inclination for this run was 3.5deg and the client was concern about the well deviation. They would POOH for 3 reasons.

- They could drill up to 2400mMD and called TD for this run. Once TD, DL was successful for Sonic the trip out.

If not, why?:

Inclination built up to 3.5degrees, Client decided to POOH and go in with a corrective BHA (motor) to bring the well back to vertical

Job Number: 08ASQ0034

Company Rep: Rocco Roussow, Peter Sheehan

Run Number: 2

Company: BEACH PETROLEUM LTD

Location: MEA-APG-ASQ

Rig Name: West Triton

Well Name: Fermat-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
ARC8D-BB-1957-SRPC	0.00 hrs	113.00 hrs	9.3b13	8.25 in
H524743-61934	0.00 hrs	113.00 hrs		8.25 in
H524743-61935	0.00 hrs	113.00 hrs		8.25 in
H524743-61943	0.00 hrs	113.00 hrs		8.25 in
H524743-61950	0.00 hrs	113.00 hrs		8.25 in
LFTSUB658-3157	hrs	hrs		8.25 in
MDC-DE-VR52	0.00 hrs	113.00 hrs	9.2c02	8.25 in
SD8D-CA-48648	0.00 hrs	113.00 hrs	6.6	8.25 in
SSTAB-12 3/16"-OSS041163B	hrs	hrs		8.25 in
SZSS-IBSP-12C-OSS 061170A	hrs	hrs		8.25 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
LWD	Resistivity	arcVision	113.00 hrs		1,376.0 m	148.00 hrs		1,376.0 m	
LWD	APWD	arcVision	113.00 hrs		1,376.0 m	148.00 hrs		1,376.0 m	
LWD	Gamma Ray	arcVision	113.00 hrs		1,376.0 m	148.00 hrs		1,376.0 m	
MWD	D&I	TeleScope	113.00 hrs		1,376.0 m	148.00 hrs		1,376.0 m	
LWD	Compressional DT	SonicVision	113.00 hrs		1,376.0 m	148.00 hrs		1,376.0 m	

Job Number: 08ASQ0034

Company Rep: Rocco Roussow, Peter Sheehan

Run Number: 2

Company: BEACH PETROLEUM LTD

Location: MEA-APG-ASQ

BHA Type: Rotary

Rig Name: West Triton

Well Name: Fermat-1

Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Len
								OD	Len, m	OD	Size	Type	Size	Type	
1	BIT	Hycalog	PDC	212219	0.29 m	12.25							6 5/8"	REG PIN	0.29 n
2	FLOAT SUB			703984	2.08 m	12.25	2.88								2.37 n
3	LWD	D&M	arcVISION	1957-SRPC	5.92 m	9.13	3.00								8.29 n
4	MWD	D&M	TeleScope	VR52	8.97 m	11.75	4.25								17.26 n
5	LWD	D&M	SonicVISION	48648	8.19 m	11.25	4.25								25.45 n
6	STABILIZER			oss041163b	2.44 m	12.19	2.88								27.89 n
7	DRILL COLLAR			n/a	9.41 m	8.38	2.88								37.30 n
8	DRILL COLLAR			1t8	9.46 m	8.25	2.88								46.76 n
9	DRILL COLLAR			N/A	9.46 m	8.38	2.81								56.22 n
10	DRILL COLLAR			1t8250	9.45 m	8.38	2.88								65.67 n
11	DRILL COLLAR			7t8	9.46 m	8.31	2.88								75.13 n
12	JAR			1762-1380	9.86 m	8.00									84.99 n
13	DRILL COLLAR			5t8	9.46 m	8.31	2.88								94.45 n
14	SUB			sssd7132	0.93 m	8.25	2.75								95.38 n
15	HWDP			5120296	9.30 m	5.50	3.06								104.68 n
16	HWDP			5120330	9.31 m	5.50	3.06								113.99 n
17	HWDP			5120301	9.40 m	5.50	3.06								123.39 n
18	HWDP			5120406	9.41 m	5.50	3.06								132.80 n
19	HWDP			5120414	9.40 m	5.50	3.06								142.20 n
20	HWDP			5120319	9.41 m	5.50	6.06								151.61 n

Predicted BHA Tendency:

Hookload Out:

Pickup Out:

Slack Weight:

Wt Below Jars:

Wt Above Jars:

Total Air Wt:

Stab Description	Mid Pt to Bit	Blade			Gauge			Bit to Read Out Port			Bit to Measurement Port		
		Type	Len	Width	Len	In	Out						
								LWD-arcVISION	6.00	m	arcVISION-APWD	4.14	m
								MWD-TeleScope	10.60	m	arcVISION-Gamma Ray	4.90	m
								LWD-SonicVISION	22.00	m	arcVISION-Resistivity	4.85	m
											TeleScope-D&I	12.96	m
											SonicVISION-Compressional	22.37	m



Job Number:08ASQ0034

Company Rep:Rocco Roussow, Peter Shei

Run No:2

Company:BEACH PETROLEUM LTD

Location:MEA-APG-ASQ

Rig Name:West Triton

Well Name:Fermat-1

			Depth in m		IADC Activity	Description
From	To	Elapsed	From	To		
<u>20-Dec-2008</u>						
00:00	02:00	2.00	999.0	1027.0	Drilling	Drilling & working junk basket
02:00	07:30	5.50	1027.0	0.0	PU / LD BHA / Tripping	POOH with Junk assembly
07:30	12:00	4.50	0.0	151.0	PU / LD BHA / Tripping	M/U 12.25in BHA
12:00	00:00	12.00	151.0	987.0	PU / LD BHA / Tripping	RIH
<u>21-Dec-2008</u>						
00:00	12:00	12.00	1027.0	1268.0	Drilling	Drilling ahead
12:00	00:00	12.00	1268.0	1478.0	Drilling	Drilling ahead
<u>22-Dec-2008</u>						
00:00	13:30	13.50	1478.0	1657.0	Drilling	Drilling ahead
13:30	14:30	1.00	1657.0	1678.0	Repair rig	Drawwork and mud pump fixed
14:30	00:00	9.50	1678.0	1792.0	Drilling	Drilling ahead
<u>23-Dec-2008</u>						
00:00	12:00	12.00	1792.0	1970.0	Drilling	Drilling ahead
12:00	00:00	12.00	1970.0	2104.0	Drilling	Drilling ahead
<u>24-Dec-2008</u>						
00:00	02:00	2.00	2104.0	2123.0	Drilling	Drilling ahead
02:00	03:00	1.00	2123.0	2123.0	Repair rig	Change wash pipe,supposed to called TD for this run
03:00	12:00	9.00	2123.0	2187.0	Drilling	Drilling ahead
12:00	00:00	12.00	2187.0	2266.0	Drilling	Drilling ahead
<u>25-Dec-2008</u>						
00:00	12:00	12.00	2266.0	2382.0	Drilling	Drilling ahead
12:00	13:30	1.50	2382.0	2396.0	Drilling	Drilling ahead
13:30	15:30	2.00	2396.0	2396.0	Circulate / Condition mud	Circulate with 1000gpm
15:30	20:30	5.00	2396.0	2101.0	PU / LD BHA / Tripping	Flow check
20:30	22:30	2.00	1356.0	1356.0	Repair rig	Trouble shoot drawworks
22:30	00:00	1.50	1333.0	1245.0	Reaming / Hole opener / Unc	Continue wash and ream

Job Number: 08ASQ0034 **Company:** BEACH PETROLEUM LTD **Rig Name:** West Triton
Company Rep: Rocco Roussow, Peter Sheeh **Location:** MEA-APG-ASQ **Well Name:** Fermat-1
Run Number: 2

Date/Time	Depth		Description
18-Dec-2008 5:00PM	0.0	m	Battery for ARC initialize 5 pm for test , and back off , Sonic start @ 5:30pm and put magnet
20-Dec-2008 5:00AM	0.0	m	Reinitialized ARC & Sonic
20-Dec-2008 6:30AM	0.0	m	Start P/U tools to catwalk
20-Dec-2008 7:25AM	0.0	m	Torque up ARC & TeleScope
20-Dec-2008 7:45AM	0.0	m	ARC in Rotary table
20-Dec-2008 8:00AM	0.0	m	Torque up TeleScope & Sonic
20-Dec-2008 8:30AM	0.0	m	Torque up Sonic & String Stab
20-Dec-2008 9:30AM	30.0	m	SHT, 700gpm, SPP=800psi, Good SHT
20-Dec-2008 6:39PM	987.0	m	Start taking the wash down data with 1000gpm, 34ROP
20-Dec-2008 6:55PM	997.0	m	Reaming out of shoe..@987m MD
20-Dec-2008 9:29PM	1027.3	m	Finished ream down up to 1027 with rpm 99, rop 50, Reamed twice due to depth gap.
20-Dec-2008 9:53PM	1028.0	m	One pump down,no signal at that moment. drawworks has problme also, 600gpm, circulating and stop drilling a while
20-Dec-2008 11:15PM	1037.2	m	Dril ahead, tool survey
20-Dec-2008 11:59PM	1053.4	m	Midnight Depth
21-Dec-2008 12:00AM	1053.4	m	Midnight Depth
21-Dec-2008 12:30AM	1063.0	m	Change the drilling parameter to drop the inclination., WOB low and RPM high
21-Dec-2008 2:38AM	1102.0	m	got shock level 3 on all tools and informed driller and coman, reduce RPM, currnt rpm 150
21-Dec-2008 2:43AM	1104.0	m	RPM 130, shock level 0, tflow 3400,
21-Dec-2008 2:48AM	1107.0	m	arc got high shock level, so inform the co man and driller to reduce the rpm more and explained them.
21-Dec-2008 2:56AM	1112.0	m	Shock level zero for all tools , ROP 40,rpm 99, tflow 3077, with 69 strokes /min for each pump
21-Dec-2008 3:22AM	1125.0	m	Drilling ahead with rpm 99. rop 40,tflow 3011, no shock, circulate with high rpm every time before making connection to drop the inclination
21-Dec-2008 3:52AM	1130.0	m	Increase rpm to 110 ,
21-Dec-2008 6:19AM	1184.8	m	KD 0.93m, Ideal cs_depth file crush while appending the master file. Created new cs_depth file and got the data back from old cs depth files (master, cs). But cant splice back those cs depth files due the attribue error from cs depth file.
21-Dec-2008 7:48AM	1210.0	m	Losses into formation, reduce SPP
21-Dec-2008 1:16PM	1314.0	m	Very high StickSlip, inform driller reduce WOB
21-Dec-2008 7:01PM	1431.0	m	Still experiencing high stick slip, inform Driller & Co-man
21-Dec-2008 8:43PM	1453.0	m	Drill ahead with flow 3188, rop 14, rpm 140,
21-Dec-2008 9:30PM	1463.0	m	ROP slow down to 5mphr,
21-Dec-2008 10:15PM	1469.0	m	high stick slip, informed driller, inrease RPM to reduce Stick slip
21-Dec-2008 10:26PM	1472.0	m	Reduce Stick slip with RPM 134, wob 6, and drilling ahead with rop 16
21-Dec-2008 11:35PM	1482.0	m	Drill ahead rop 8
21-Dec-2008 11:59PM	1485.0	m	Mid night depth
22-Dec-2008 12:00AM	1478.0	m	Midnight depth
22-Dec-2008 2:13AM	1512.0	m	Drill ahead with ROP 30, rpm 148
22-Dec-2008 3:02AM	1530.0	m	Continue drilling with rop 20, tflow 3400, surface torque 1.9, rpm 148,
22-Dec-2008 4:17AM	1545.0	m	Contine drilling with 18rop,tflow 3564, in 80st/min for each pump
22-Dec-2008 6:32AM	1585.0	m	Co-man decision to increase WOB to 15klbf & RPM to 160
22-Dec-2008 6:52AM	1590.0	m	Very high StickSlip, inform Co-man & driller to reduce WOB, increase RPM, pick up off-bottom, let torque unwind (inform Driller about StickSlip prevention methods)
22-Dec-2008 8:58AM	1619.0	m	StickSlip high, WOB=17 kft.lbf, asked driller to reduce to 16
22-Dec-2008 10:01AM	1640.0	m	Spoke to Co-man about current good drilling parameters (good ROP, low StickSlip)
22-Dec-2008 12:22PM	1675.0	m	Made formal Notification to Co-man regarding S&V (StickSlip), he acknowledged & signed it
22-Dec-2008 12:24PM	1675.0	m	TopDrive problems, fixing it

Date/Time	Depth	Description
22-Dec-2008 1:00PM	1678.0 m	TopDrive problems again, fixing it
22-Dec-2008 3:34PM	1710.0 m	Informed Driller of a long trend of high stick and slip. His response was "you have your job to do i have mine"
22-Dec-2008 3:38PM	1714.0 m	Demodulating a few bad words/bits
22-Dec-2008 5:59PM	1743.0 m	Bad signal, changed pump2 to pump3 (so P1 & P3 working now)
22-Dec-2008 6:40PM	1746.0 m	Drilling ahead with rop 7, tflow 3764, pump strokes 85 each.Did force retrain because of pmp stroke change, Should be entering skull creek mudstone formation
22-Dec-2008 7:44PM	1760.0 m	Drilling ahead with rop 20, rpm 196, tflow 3764, 1000gpm
22-Dec-2008 8:13PM	1766.0 m	Got shock level 2 for 1 minute ,and signal lost for 1 frame, when back on signal, no shck
22-Dec-2008 9:49PM	1777.0 m	Drilling ahead with rop 10,tflow 3741, rpm195
22-Dec-2008 11:11PM	1798.0 m	Drilling ahead with rop 20,rpm 190
22-Dec-2008 11:59PM	1804.0 m	Midnight depth
23-Dec-2008 12:00AM	1804.0 m	Midnight depth
23-Dec-2008 2:26AM	1834.0 m	Driling ahead with Rop30, 1000gpm
23-Dec-2008 3:06AM	1844.0 m	Drilling ahead with ROP 16, rpm 235, wob10
23-Dec-2008 4:02AM	1859.0 m	Drilling ahead with ROP 8, tflow 1000gpm, rpm 200
23-Dec-2008 4:50AM	1867.0 m	Drill ahead with ROP 10, tflow 1000gpm, rpm230, 86strok/min for each pump
23-Dec-2008 9:30AM	1930.0 m	Entering Belfast C&B Mudstone formation
23-Dec-2008 10:02AM	1940.0 m	Pump3 blew a piston, now just using Pump1 only
23-Dec-2008 10:42AM	1952.0 m	Drilling ahead with rpm 240,gpm 1000, rop 30
23-Dec-2008 2:55PM	1990.0 m	Back to P1 & P2
23-Dec-2008 7:07PM	2065.0 m	Driling ahead with ROP 34,mtflow 3808, 86strokes in each pump. now running with pump 1 and pump 2
23-Dec-2008 8:07PM	2073.0 m	Change the pump, run with only pump 1 and 3, 86strokes/min each, 1000gpm, IDEAL time changed since 8pm. Run back up ideal in HSPM. Depth file need to be edited for the RM processing.
23-Dec-2008 10:58PM	2104.0 m	(13pm in this ideal clock time) drilling ahead with rop 2mphr, tflow 1000pgm
23-Dec-2008 11:53PM	2104.0 m	(13:54) total flow drop down to 1904 liter per minute because of driling with one pump 86 strok/min. IDEAL system is not healty ,show error message.
23-Dec-2008 11:59PM	2104.0 m	(14:02) Midnight depht, driling with two pumps 86 stroke/min each.
24-Dec-2008 12:00AM	2104.0 m	Midnight depth
24-Dec-2008 1:04AM	2123.0 m	Rig repair
24-Dec-2008 1:40AM	2123.0 m	Stop drilling and POOH, theydont allow to downlink to the tool becaus of pump problems
24-Dec-2008 2:15AM	2123.0 m	continue drilling
24-Dec-2008 2:33AM	2127.0 m	Drilling ahead with ROP 17,
24-Dec-2008 4:03AM	2135.0 m	(18:04) Drilling ahead with ROP 4, tflow 1000gpm,rpm 200
24-Dec-2008 4:18AM	2135.0 m	(18:19) Pump problem , fixing pumps
24-Dec-2008 4:24AM	2135.0 m	(18:25) Back on bottom with one pump 86 strokes/min and just above 600gpm
24-Dec-2008 9:40AM	2179.0 m	Experiencing High StickSlip & Shock, inform Driller, adjust drilling parameters
24-Dec-2008 9:45AM	2180.0 m	At approximate depth, should be enternting Belfast A Mudstone formation
24-Dec-2008 1:00PM	2196.0 m	Notify driller of high stickslip & shocks
24-Dec-2008 5:00PM	2218.0 m	High shocks on ARC (level 3), notify Driller
24-Dec-2008 6:42PM	2236.0 m	shock level 1, ROP 5,WOB 40
24-Dec-2008 7:24PM	2241.0 m	Shock level 3 on ARC for two seconds.
24-Dec-2008 7:44PM	2244.0 m	Got high shock level, informed driller to change drilling parameters.
24-Dec-2008 8:40PM	2248.0 m	Drilling ahead with ROP 6, tflow 1000gpm, wob 20,thkld 235, rpm 223
24-Dec-2008 10:16PM	2260.0 m	Drilling ahead with ROP 10, tflow 1000gpm, thkld 235, rpm 223, sometimes we have got shock level up to 2, informed driller and keep watching the situation
24-Dec-2008 11:47PM	2273.0 m	shock level 3, tell driller to reduce rpm, current rpm is 250
24-Dec-2008 11:59PM	2266.0 m	Midnight depth
25-Dec-2008 12:00AM	2266.0 m	Midnight depth.Drilling ahead with RPM173
25-Dec-2008 3:07AM	2297.0 m	Drilling ahead with RPM 199,rop 20, tflow1000gpm, 87 stroke per minute for each pump
25-Dec-2008 4:20AM	2307.0 m	Drilling ahead with RPM 216,tflow 1000gpm,rop 19, sppa 2367
25-Dec-2008 4:42AM	2314.0 m	Drilling ahead with rop 14, rpm 226, tflow 1000gpm, rpm 3477
25-Dec-2008 10:00AM	2372.0 m	Batteries loaded into Sonic (41229A), put magnet
25-Dec-2008 10:36AM		

Date/Time	Depth		Description
25-Dec-2008 11:00AM	2386.0	m	Inform Co-man & Driller that experiencing very high shocks on ARC (level 3), reduce RPM by 10%
25-Dec-2008 11:30AM	2389.0	m	Co-man increase RPM so can drill ahead to stand down (2397m)
25-Dec-2008 12:30PM	2396.0	m	Run 3 Total Depth @ 2396m MD, start circulating BU
25-Dec-2008 2:00PM	2396.0	m	DL to Sonic for Fast Config (tripping out), Successful
26-Dec-2008 2:00AM	919.0	m	Still Troubleshooting Topdrive



Job Number: 08ASQ0034
Company Rep: Rocco Roussow, Peter Sheehan
Run Number: 2

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

	25-Dec-2008 10:00 AM	25-Dec-2008 2:45 AM	24-Dec-2008 9:44 AM	24-Dec-2008 4:32 AM	23-Dec-2008 11:10 AM	23-Dec-2008 12:37 AM	22-Dec-2008 2:20 AM
Field Engineer	Josh Seevaratnam	San thida Aung	Josh Seevaratnam	San thida Aung	Josh Seevaratnam	San thida Aung	San thida Aung
Depth	2,372.48 m	2,293.00 m	2,179.00 m	2,136.00 m	1,953.77 m	1,818.00 m	1,515.00 m
Avg ROP	5.42 m/hr	5.42 m/hr	6.75 m/hr	6.75 m/hr	13.00 m/hr	13.00 m/hr	12.21 m/hr
On Bottom ROP	6.72 m/hr	6.72 m/hr	8.73 m/hr	8.73 m/hr	17.89 m/hr	17.89 m/hr	18.49 m/hr
Flow Rate	1,000.00 galUS/min	1,000.00 galUS/min	1,000.00 galUS/min	1,000.00 galUS/min	850.00 galUS/min	800.00 galUS/min	1,000.00 galUS/min
Turbine RPM	3,438 rpm	3,438 rpm	3,438 rpm	3,438 rpm	3,438 rpm	3,359 rpm	3,398 rpm
Surface RPM	196 rpm	199 rpm	208 rpm	146 rpm	235 rpm	197 rpm	148 rpm
WOB Rotating				30.00 klbm	12.00 klbm	12.00 klbm	8.00 klbm
WOB Sliding							
DH WOB							
Surface Torque							
DH Torque							
Hookload	202 klbm	196 klbm	189 klbm	198 klbm	192 klbm	192 klbm	176 klbm
PickUp Weight							
Slack Weight							
Friction							
SPP On Bottom	2,384.00 psi	2,289.00 psi	2,245.00 psi	2,303.00 psi	2,216.00 psi	2,262.00 psi	2,212.00 psi
SPP Off Bottom	2,275.00 psi	2,280.00 psi	2,170.00 psi	2,290.00 psi	2,150.00 psi	2,258.00 psi	2,200.00 psi
Diff Pressure	109 psi	9 psi	75 psi	13 psi	66 psi	4 psi	12 psi
BH Temperature	65.00 degC	60.00 degC	62.00 degC	50.00 degC	56.00 degC	55.00 degC	49.00 degC
Total Shocks (k)							
Max Shock Level	3	3	2			2	
Max Shock Duration						2	
Torsional Vib							
Lateral Vib							
Axial Vib							
CRPM	199 rpm	200 rpm	209 rpm	200 rpm	233 rpm	197 rpm	149 rpm
Stick/Slip	24	27	36	75	12		30
Formation	Other	Siltstone	Siltstone	Other	Sandstone	Other	Claystone
Signal Strength	22.30 psi	17.00 psi	20.20 psi	21.80 psi	24.90 psi	24.00 psi	42.00 psi
Percent Signal Conf	86 %	82 %	78 %	45 %	36 %	82 %	90 %

	21-Dec-2008 11:51 AM	21-Dec-2008 5:04 AM	21-Dec-2008 2:32 AM
Field Engineer	Josh Seevaratnam	David Gibson	San thida Aung
Depth	1,285.85 m	1,154.00 m	1,125.00 m
Avg ROP	18.79 m/hr	18.79 m/hr	18.79 m/hr
On Bottom ROP	73.57 m/hr	73.57 m/hr	73.57 m/hr
Flow Rate	800.00 galUS/min	895.00 galUS/min	800.00 galUS/min
Turbine RPM	2,656 rpm	2,852 rpm	
Surface RPM	130 rpm	128 rpm	99 rpm
WOB Rotating	8.00 klbm	6.60 klbm	5.00 klbm
WOB Sliding			
DH WOB			
Surface Torque		.31 kft.lbf	.03 kft.lbf
DH Torque			
Hookload	168 klbm	163 klbm	152 klbm
PickUp Weight			
Slack Weight			
Friction			
SPP On Bottom	1,600.00 psi		
SPP Off Bottom	1,520.00 psi		
Diff Pressure	80 psi		
BH Temperature	41.00 degC	37.00 degC	37.00 degC
Total Shocks (k)			
Max Shock Level			3
Max Shock Duration			1,200
Torsional Vib			
Lateral Vib			
Axial Vib			
CRPM	128 rpm	130 rpm	
Stick/Slip	48		
Formation	Sandstone	Sandstone	Sandstone
Signal Strength	32.10 psi	28.00 psi	32.00 psi
Percent Signal Conf	87 %	86 %	79 %

Job Number:08ASQ0034

Company Rep:Rocco Rossouw ,Peter Sheehan

Run Number:3

Company:BEACH PETROLEUM LTD

Location:MEA-APG-ASQ

Rig Name:West Triton

Well Name:Fermat-1

Run Information

Date In		Date Out		Drilling Distance:		Drilling Hours:	
26-Dec-2008	3:50PM	29-Dec-2008	12:10AM	Rotary Drilling Distance:	333.00 m	Rotary Drilling Hrs:	19.30 hrs
Depth (MD):	2396.0 m	to	2807.0 m	Sliding Distance:	255.00 m	Sliding Hours:	10.40 hrs
Depth (TVD):	2394.2 m	to	2804.4 m	Reaming Distance:	78.00 m	Reaming Hours:	8.90 hrs
Inclination:	3.26 deg	to	3.22 deg		0.00 m	Hrs Below Rotary:	0.00 hrs
Azimuth:	227.00 deg	to	72.75 deg			Total Pumping Hrs:	68.00 hrs
Hole Size:	12.25 in						29.70 hrs
Last Casing Size:	13.375 in			North Ref Used:	Grid North	Min DLS:	0.07 deg/30 m
Last Casing Depth:	987.0 m	(MD)		Magnetic Dec:	9.870 deg	Max DLS:	1.64 deg/30 m
Tool Face Arc:	51.0 cm			Grid Correction:	-0.030 deg	Max DLS Depth:	2,471.6 m
Total Face Angle:	274.03 deg			Total Correction:	9.902 deg	Surface Screen:	No
				Est. Mag. Int:	0.11 deg	DFS Used:	No
						Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	38.00 m	Pulse Damp Press:	700 psi
Air Gap:	15.00 m	Number of Pumps:	3
RKB Height:	42.90 m	Pump Line ID:	6.50 in
Ground Elevation:	80.85 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

Make correction run from 2400m to 2700m. Correct INC angle from 3.26 back to zero with no offset

D&M Crew List:

Cell Manager: Joshua Seevaratnam
Crew: San thida Aung, LWD
David Gibson, MWD
Josh Seevaratnam, Cell Manager
Chris Skiba, DD

DH Motor Information

Manufacturer:	D&M	Bit to Bend Dist:	m
Motor Type:	PowerPak	Bearing Play In:	in
Motor Size:	9.62	Bearing Play Out:	in
Serial No.:	02983	Bent Sub Angle:	deg
Lobe Config:	7:8	Bent HSG Angle:	1.1501 deg
Stage Length:	4.00 m		
Rubber:			
Sleeve Position:			
Sleeve Size:	12.13 in		
Bearing Type:	Mud Lubricated		

RSS Information

RSS Manufacturer:	
RSS Type:	
RSS SN:	
RSS Size:	
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle:	deg
Rise Time Const:	
Fall Time Const:	
Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	in	Turbine Config:	galUS/min	Frequency:	24 Hz	Pred Sig Strength @ TD:	psi
SPT Type:	HA						

Rig Name: West Triton
Well Name: Fermat-1

Mud Information

Mud Type:	Water Base	Mud Clean:	Yes	pH:	8.70
Mud Company:	Baroid	LCM Type:		Chlorides:	46,378.00 ppm
Mud Brand:		LCM Size:		Sand Content:	0.50 %
Funnel Viscosity:	47.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	%
Plastic Viscosity:	14.00 cp	Weighting Material:	Barite	Percent Oil:	%
Yield Point:	35.00 lbm/100ft2	Mud Weight:	9.85 lbm/galUS		
Mud Resistivity:	0.09 ohm-m				

Manufacturer: Hycalog	Total Revs:	IADC Code:
Model: RSX616M-A10	Stick/Slip:	Jets (/ 32 in): 3X13 3X15
Type: PDC	Reason Pulled: Total Depth/Casing Depth	Bit TFA: 0.91 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	1.00	LT	G		I	LT

Sync Hours:	22.54	hrs	Downhole Noise:	No	Run Failed:	No	
Jamming:	No	0.00 hrs	Surface System Failure:	No	D&M Trip:	No	
Surface Vibration:	No		Surface Noise:	No	Low Oil Flag:	No	0.00 hrs
Trans Fail:	No		H2S in Well:	No	Filter Screen/Plug Shear:	No	

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: Yes

If not, why?:

Reached Section TD @ 2807m MD. Brought Inc to 3.22deg with an Azimuth of 72deg compared to the start Inc of 3.26deg with Azimuth of 227deg.

Client happy with LWD Sonic data, didnt need to run Wireline. Logged with Sonic during tripout too.

Job Number: 08ASQ0034

Company Rep: Rocco Rossouw ,Peter Sheehan

Run Number: 3

Company: BEACH PETROLEUM LTD

Location: MEA-APG-ASQ

Rig Name: West Triton

Well Name: Fermat-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
A962M-02983	0.00 hrs	29.70 hrs		9.63 in
ARC8D-BB-1948-SRPC	0.00 hrs	29.70 hrs	9.3B13	8.25 in
FS800-ASQ8038	0.00 hrs	29.70 hrs		8.00 in
H524743-61955	0.00 hrs	29.70 hrs		8.25 in
H524743-61956	0.00 hrs	29.70 hrs		8.25 in
H524743-61961	0.00 hrs	29.70 hrs		8.25 in
H524743-61962	0.00 hrs	29.70 hrs		8.25 in
MDC-DE-VR52	100.00 hrs	129.70 hrs	9.2C02	8.25 in
SD8D-CA-41229	0.00 hrs	29.70 hrs	6.6	8.25 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
LWD	Resistivity	arcVision	29.70 hrs		333.0 m	68.00 hrs		333.0 m	
LWD	APWD	arcVision	29.70 hrs		333.0 m	68.00 hrs		333.0 m	
LWD	Gamma Ray	arcVision	29.70 hrs		333.0 m	68.00 hrs		333.0 m	
MWD	D&I	TeleScope	29.70 hrs		333.0 m	68.00 hrs		333.0 m	
LWD	Compressional DT	SonicVision	29.70 hrs		333.0 m	68.00 hrs		333.0 m	
MOTORS	PowerPak	PowerPak	29.70 hrs		333.0 m	hrs			

Job Number: 08ASQ0034
Company Rep: Rocco Rossouw ,Peter Sheehan
Run Number: 3
Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ
BHA Type: Steerable Motor

Rig Name: West Triton
Well Name: Fermat-1

Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Lei
								OD	Len, m	OD	Size	Type	Size	Type	
1	BIT	Hycalog	PDC	219736	0.30	m	12.25	3.75					6 5/8"	REG PIN	0.30
2	MOTORS	D&M	PowerPak	02983	9.73	m	9.63	7.85			6 5/8"	REG BOX	6 5/8"	REG BOX	10.03
3	FLOAT SUB	D&M		ASQ8038	0.79	m	8.00	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	10.82
4	LWD	D&M	arcVISION	1948-SRPC	5.92	m	8.25	3.00			6 5/8"	REG PIN	6 5/8"	FH BOX	16.74
5	MWD	D&M	TeleScope	VR52	8.97	m	11.75	4.25			6 5/8"	FH PIN	6 5/8"	FH BOX	25.71
6	LWD	D&M	SonicVISION	41229	8.09	m	8.25	4.25			6 5/8"	FH PIN	6 5/8"	REG BOX	33.80
7	STABILIZER			oss041163b	2.44	m	12.19	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	36.24
8	DRILL COLLAR			n/a	9.41	m	8.38	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	45.65
9	DRILL COLLAR			1t8	9.46	m	8.25	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	55.11
10	DRILL COLLAR			N/A	9.46	m	8.38	2.81			6 5/8"	REG PIN	6 5/8"	REG BOX	64.57
11	DRILL COLLAR			1t8250	9.45	m	8.38	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	74.02
12	DRILL COLLAR			7t8	9.46	m	8.31	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	83.48
13	JAR			1762-1380	9.86	m	8.00	2.81			6 5/8"	REG PIN	6 3/4"	REG BOX	93.34
14	DRILL COLLAR			5t8	9.46	m	8.31	2.88			6 5/8"	REG PIN	6 5/8"	REG BOX	102.80
15	SUB			sssd7132	0.93	m	8.25	2.75			5 1/2"	REG PIN	5 1/2"	REG BOX	103.73
16	HWDP			5120296	9.30	m	5.50	3.06			5 1/2"	REG PIN	5 1/2"	REG BOX	113.03
17	HWDP			5120330	9.31	m	5.50	3.06			5 1/2"	REG PIN	5 1/2"	REG BOX	122.34
18	HWDP			5120301	9.40	m	5.50	3.06			5 1/2"	REG PIN	5 1/2"	REG BOX	131.74
19	HWDP			5120406	9.41	m	5.50	3.06			5 1/2"	REG PIN	5 1/2"	REG BOX	141.15
20	HWDP			5120414	9.40	m	5.50	3.06			5 1/2"	REG PIN	5 1/2"	REG BOX	150.55
21	HWDP			5120319	9.41	m	5.50	6.06			5 1/2"	REG PIN	5 1/2"	REG BOX	159.96

Predicted BHA Tendency:

Hookload Out:
Pickup Out:
Slack Weight:
Wt Below Jars:
Wt Above Jars:
Total Air Wt:

Stab Description	Mid Pt to Bit	Blade			Gauge		
		Type	Len	Width	Len	In	Out

Bit to Read Out Port			Bit to Measurement Port		
LWD-arcVISION	6.00	m	arcVISION-Resistivity	4.85	
MWD-TeleScope	10.60	m	arcVISION-APWD	4.14	
LWD-SonicVISION	22.00	m	arcVISION-Gamma Ray	4.90	
MOTORS-PowerPak			TeleScope-D&I	12.96	
			SonicVISION-Compressional	22.37	

Job Number:

08ASQ0034

Company Rep:

Rocco Rossouw ,Peter Shei

Run No:

3

Company:

BEACH PETROLEUM LTD

Location:

MEA-APG-ASQ

Rig Name:

West Triton

Well Name:

Fermat-1

Depth in m						
From	To	Elapsed	From	To	IADC Activity	Description
26-Dec-2008						
00:00	10:00	10.00	1245.0	990.0	Repair rig	Fix Topdrive
10:00	13:00	3.00	990.0	50.0	PU / LD BHA / Tripping	POOH
13:00	15:40	2.67	50.0	0.0	PU / LD BHA / Tripping	L/D BHA
15:40	16:30	0.83	0.0	0.0	PU / LD BHA / Tripping	M/U BHA for Run3
16:30	17:00	0.50	0.0	0.0	DD service quality	Set bend on motor, Scribe Toolface
17:00	00:00	7.00	33.0	1000.0	PU / LD BHA / Tripping	Cont M/U BHA & RIH
27-Dec-2008						
00:00	03:00	3.00	1341.0	2346.0	PU / LD BHA / Tripping	Continue RIH
03:00	03:30	0.50	2346.0	2396.0	Reaming / Hole opener / Unc	wash down with 800gpm
03:30	12:00	8.50	2396.0	2465.0	Drilling	Drilling with 900gpm,wob15k
12:00	00:00	12.00	2465.0	2671.0	Drilling	Drilling and sliding
28-Dec-2008						
00:00	09:00	9.00	2671.0	2807.0	Drilling	Reached Section TD @ 2807m MD
09:00	10:00	1.00	2807.0	2807.0	MWD/LWD service quality	DL to Sonic for tripout
10:00	18:00	8.00	2807.0	1000.0	PU / LD BHA / Tripping	Start POOH
18:00	20:00	2.00	1000.0	1000.0	Slip and cut drill line	Slip & cut
20:00	23:00	3.00	1000.0	50.0	PU / LD BHA / Tripping	POOH
23:00	00:00	1.00	50.0	0.0	PU / LD BHA / Tripping	Start L/D BHA

Job Number: 08ASQ0034
Company Rep: Rocco Rossouw ,Peter Sheeh
Run Number: 3
Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Date/Time	Depth		Description
26-Dec-2008 12:30PM	0.0	m	Reintialize BU ARC (S/N#1948)
26-Dec-2008 2:00PM	0.0	m	L/D PR ARC + Sonic
26-Dec-2008 3:00PM	0.0	m	Reprogram TeleScope (Regular Inc switch)
26-Dec-2008 3:30PM	0.0	m	Reintialize BU Sonic
26-Dec-2008 3:40PM	0.0	m	M/U ARC with TeleScope
26-Dec-2008 4:00PM	0.0	m	M/U Bit & Motor
26-Dec-2008 4:30PM	0.0	m	Set bend on Motor (1.15deg)
26-Dec-2008 5:00PM	0.0	m	Scribe Toolface correction (274.03deg)
26-Dec-2008 7:00PM	33.0	m	SHT, 800gpm, SPP=690psi, Good SHT
26-Dec-2008 7:15PM	33.0	m	Continue M/U BHA & RIH
27-Dec-2008 7:55AM	2426.0	m	spoke with driller about high stick and slip.
27-Dec-2008 8:49AM			
27-Dec-2008 9:55AM	2445.0	m	check shot survey for DD prior to sliding
27-Dec-2008 10:27AM	2455.0	m	slidin at MTF 50 degrees
27-Dec-2008 6:27PM	2576.0	m	Drilling ahead with rop 40,rpm 79,
27-Dec-2008 7:20PM	2584.0	m	Drilling ahead with rop 30, rpm 79,
27-Dec-2008 8:32PM	2612.0	m	Drilling ahead with ROP 30, rpm 79, tflow 900gpm
27-Dec-2008 9:47PM	2641.0	m	Drilling ahead with rop 30, rpm 78, tflow 900gpm
27-Dec-2008 11:03PM	2671.0	m	Drilling ahead with rop 30, tflow 900gpm, rpm 82,76strokes per each pump
27-Dec-2008 11:39PM	2688.0	m	Drilling ahead with rop 40, rpm 82,tflow 900gpm, 76 stroke for each pump
28-Dec-2008 12:00AM	2671.0	m	Midnight depth.
28-Dec-2008 12:12AM	2695.0	m	Drilling ahead with ROP 12, tflow 900gpm,
28-Dec-2008 12:29AM	2695.0	m	Sliding, rop 13, SPPA 2255psi, tflow 900gpm
28-Dec-2008 12:39AM	2700.0	m	Finish sliding continue drilling with rpm 41, almost stand down
28-Dec-2008 1:11AM	2705.0	m	Sliding with 900 gpm, rop 9, sppa 2115, TRPMM 3047
28-Dec-2008 1:52AM	2711.0	m	Finish sliding and continue drilling with rpm 45, ROP 30, tflow 900gpm
28-Dec-2008 2:15AM	2721.0	m	Drilling ahead with rpm 45, rop 30, tflow 900gpm, sppa 2296
28-Dec-2008 2:30AM	2728.0	m	Drilling ahead with rpm 78,rop 30
28-Dec-2008 3:07AM	2732.0	m	Drilling ahead with rpm 80, rop 30, tflow 3365
28-Dec-2008 3:21AM	2740.0	m	Sliding with rop 10, tflow 3365,
28-Dec-2008 3:50AM	2748.0	m	Finish sliding and continue drilling with rop 36, rpm 41, 76 strokes per minute for each pump
28-Dec-2008 4:55AM	2767.0	m	Drilling ahead with rpm 81, tflow 900gpm, sppa 2292, rop 30, 76 strokes per minute for each pump .
28-Dec-2008 5:30AM	2783.0	m	High Stick & Slip, infrom Driller to reduce WOB
28-Dec-2008 6:57AM	2807.0	m	12.25in section TD @ 2807m MD
28-Dec-2008 9:00AM	2800.0	m	DL to Sonic to Fast Config for trip out
28-Dec-2008 10:00AM	2800.0	m	Start POOH
28-Dec-2008 10:14PM	0.0	m	break the connection between sonic and stabilizer
28-Dec-2008 10:36PM	0.0	m	break the connection between sonic and telescope
28-Dec-2008 11:19PM	0.0	m	Break the bit
28-Dec-2008 11:48PM	0.0	m	break the connection between arc and telescope
29-Dec-2008 12:10AM	0.0	m	break the connection between arc and stabilizer



Job Number:

08ASQ0034

Company Rep:

Rocco Rossouw ,Peter Sheehan

Run Number:

3

Company:

BEACH PETROLEUM LTD

Location:

MEA-APG-ASQ

Rig Name:

West Triton

Well Name:

Fermat-1

	28-Dec-2008 2:16 AM	27-Dec-2008 10:14 AM
Field Engineer	San thida Aung	David Gibson
Depth	2,721.00 m	2,455.00 m
Avg ROP	5.67 m/hr	11.46 m/hr
On Bottom ROP	8.37 m/hr	474.14 m/hr
Flow Rate	900.00 galUS/min	888.00 galUS/min
Turbine RPM	3,008 rpm	3,008 rpm
Surface RPM	45 rpm	
WOB Rotating	27.00 klbm	
WOB Sliding	25.00 klbm	18.40 klbm
DH WOB		
Surface Torque	3.05 kft.lbf	1.00 kft.lbf
DH Torque		
Hookload	238 klbm	229 klbm
PickUp Weight		
Slack Weight		
Friction		
SPP On Bottom		
SPP Off Bottom		
Diff Pressure		
BH Temperature	60.00 degC	77.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		
Lateral Vib		
Axial Vib		
CRPM	45 rpm	
Stick/Slip	102	
Formation	Siltstone	Siltstone
Signal Strength	10.30 psi	16.00 psi
Percent Signal Conf	94 %	52 %

DOWN-HOLE MOTOR RUN REPORT

Motor Size : Serial No : Run No : BHA No: Ft, Mt

<u>Company</u>	<input type="text" value="Beach Petroleum"/>	<u>Well</u>	<input type="text" value="Fermat 1"/>	<u>Slot</u>	<input type="text"/>	<u>Field</u>	<input type="text" value="Fermat"/>
		<u>Location</u>	<input type="text" value="Otway Basin"/>	<u>Country</u>	<input type="text" value="Australia"/>		
<u>Operator</u>	<input type="text" value="Seadrill"/>	<u>Rig</u>	<input type="text" value="West Triton"/>	<u>Engineer</u>	<input type="text" value="C Skiba"/>		<u>Date</u>
					<input type="text" value="29-Dec-08"/>		

<u>Bit Size</u>	<u>Make</u>	<u>Type</u>	<u>IADC</u>	<u>Jets</u>	<u>Jets</u>	<u>Jets</u>	<u>Jets</u>	<u>TFA</u>
<input type="text" value="12 1/4"/>	<input type="text" value="Reed/Hycalog"/>	<input type="text" value="PDC"/>	<input type="text" value="M432"/>	<input type="text" value="3 x 13"/>	<input type="text" value="3 x 15"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0.907"/>

IADC CUTTING STRUCTURE

<u>Inner Row</u>	<u>Outer Row</u>	<u>Dull Char'</u>	<u>Location</u>	<u>Brq/Seals</u>	<u>Gauge</u>	<u>Others</u>	<u>Reason for Trip</u>
<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="LT"/>	<input type="text" value="G"/>	<input type="text" value="X"/>	<input type="text" value="IN"/>	<input type="text" value="BU"/>	<input type="text" value="TD"/>

<u>Motor Made By</u>	<u>Size</u>	<u>Model / Type</u>	<u>Rotor/Stator</u>	<u>Serial No</u>	<u>Hsg Stab OD</u>	<u>° Bent Hsg</u>	<u>° Bent Sub</u>
<input type="text" value="Anadrill"/>	<input type="text" value="9.625"/>	<input type="text" value="A962GT"/>	<input type="text" value="7:8"/>	<input type="text" value="2983"/>	<input type="text" value="12 1/8"/>	<input type="text" value="1.15"/>	<input type="text" value="N/A"/>
<u>Type</u>	<input type="text" value="1 = Straight; 2 = Steerable;"/> <input type="text" value="2"/> 3 = Double Bend	<u>Stator Ser N°</u>	<input type="text" value="14704"/>	<u>Rotor Ser N°</u>	<input type="text" value="5535"/>	<u>Drig Cmt, Wash/Ream</u>	<input type="text" value="10.4"/>
		<u>Drig Hrs</u>	<input type="text" value="19.30"/>	<u>Circ Hrs</u>	<input type="text" value="29.7"/>	<u>Total Motor Circ Hrs</u>	<input type="text" value="29.70"/>

<u>Purpose of Run</u>	Correct inclination to vertical, then to 3 degrees @ an azimuth of 47 degrees
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BHA	<u>Surveys</u>	<u>MD IN</u>	<input type="text" value="2396.00"/>	<u>Inclin</u>	<input type="text" value="3.36"/>	<u>Azim</u>	<input type="text" value="228.47"/>
		<u>MD OUT</u>	<input type="text" value="2807"/>	<u>Inclin</u>	<input type="text" value="3.14"/>	<u>Azim</u>	<input type="text" value="70.72"/>
	<u>Flow Rate</u>	<u>Off Bttm PSI</u>	<u>On Bttm PSI</u>	<u>RPM</u>	<u>WOB</u>		
	<input type="text" value="GPM"/> <input type="text" value="900"/>	<input type="text" value="2050"/>	<input type="text" value="2400"/>	<input type="text" value="80"/>	<input type="text" value="Klbs"/> <input type="text" value="20.00"/>		
	<u>Mud Type</u>	<input type="text" value="KCI Polymer"/>	<u>Mud Wt</u>	<input type="text" value="10.00"/>	<u>Mud Grad'</u>	<input type="text" value="0.519"/>	<u>Vis</u>
	<input type="text" value="PV"/> <input type="text" value="16"/>	<u>Filtrate</u>	<input type="text" value="5.60"/>	<u>% Solids</u>	<input type="text" value="10.00"/>	<u>Aniline Pt</u>	<input type="text" value="N/A"/>
	<input type="text" value="YP"/> <input type="text" value="37"/>	<u>% Oil</u>	<input type="text" value="0"/>	<u>% Sand</u>	<input type="text" value="0.25"/>	<u>Circ Temp</u>	<input type="text" value="60.0"/>
	<u>Depth In</u>	<input type="text" value="2396"/>	<u>Depth Out</u>	<input type="text" value="2807"/>	<u>Inter'l Drld</u>	<input type="text" value="411"/>	
<u>Date In</u>	<input type="text" value="26-Dec-08"/>	<u>Date Out</u>	<input type="text" value="29-Dec-08"/>	<u>ROP</u>	<input type="text" value="20.00"/>		
<u>Time In</u>	<input type="text" value="17:00"/>	<u>Time Out</u>	<input type="text" value="00:30"/>	<u>Time BRT</u>	<input type="text" value="55.50"/> Hrs		

<u>FAILURE?</u>	<input type="text" value="No"/>	<u>Slide Mts</u>	<input type="text" value="78"/>	<u>Previous Hrs</u>	<input type="text" value="0.00"/>	<u>Cumulative Hrs</u>	<input type="text" value="29.70"/>
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<u>Remarks / Failure Report.</u> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<u>Did Motor</u>	<u>Stall</u>		<u>Bearing Play</u>
	Y	Y		In <input type="text" value="1.1 mm"/>
	Slide	Rty		Out <input type="text" value="3.2 mm"/>
	N	N		<u>Condition</u> <input type="text" value="Good"/>

Slide Sheet

BHA: 12 1/4" 962 PDM ARC PP SONIC Rev2

Client: Beach Petroleum		Well: Fermat-1		Directional Driller: Chris Skiba	
Field: Olway Basin		Borehole: Fermat-1		Directional Driller:	
Structure: Fermat-1		UWI/API#:		Job #: 08ASQ0034	
Depth In: 2376		Depth Out: 2807		Total Time: 21.5	
Inclination In: 3.36		Inclination Out: 3.22		SLIDE Time: 8.9	
Azimuth In: 228.47		Azimuth Out: 72.34		ROTATE Time: 12.6	
		Tot Distance: 431		Total ROP: 20.0	
		SLIDE: 78		SLIDE ROP: 8.7	
		% SLIDE 18.1			
		ROTATE: 353		ROTATE ROP: 27.9	
		% ROTAT 81.9			
Comments:					

Statistics:

None	Min	Max	Sum	Min	Max	Sum	Avg	Max	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	None	Max	Avg	Avg	Avg
	27/12/08 3:40	28/12/08 7:55	21.55	2376	2807	431	50.8	M	900	67	15.1	7.2	2033	2316	276			2783.95	2.32	93.94	0.58

Orienting Method	Start Time (d/m/yy h:mm)	End Time (d/m/yy h:mm)	Duration (hr)	Md From (m)	Md To (m)	Course (m)	TF Angle (°)	TF Mode (G/M)	Flow (GPM)	RPM (rpm)	WOB (klbs)	Torque (KFLB)	SPP Off Bot (PSI)	SPP On Bot (PSI)	Delta P (PSI)	Comment	Svy Md (m)	Incl (°)	Azmth (°)	DLS (° / 30 m)
ROTATE	27/12/08 3:40	27/12/08 4:00	0.33	2376	2397	21	0	M	900	60	3	3	2100	2200	100	Washed down, tagged at 2396m. Break in Bit. SCR	2382.7	3.36	228.47	0.07
SLIDE	27/12/08 5:00	27/12/08 6:23	1.36	2397	2404	7	-150	M	900		12		2000	2200	200	Erratic slide. Could not establish a toolface in any direction.				
SLIDE	27/12/08 6:57	27/12/08 8:33	1.60	2404	2422	18	50	M	900		8		2000	2150	150	15 metres considered good slide.	2412.78	2.64	231.24	0.73
ROTATE	27/12/08 8:38	27/12/08 9:05	0.45	2422	2434	12	0	M	900	40	15	7	2050	2450	400					
ROTATE	27/12/08 9:27	27/12/08 10:18	0.85	2434	2455	21	0	M	900	40	20	10	2000	2400	400		2441.9	1.53	213.4	1.31
SLIDE	27/12/08 10:22	27/12/08 11:50	1.47	2455	2463	8	40	M	900	0	12	0	2000	2050	50					
ROTATE	27/12/08 11:50	27/12/08 12:00	0.17	2463	2464	1	0	M	900	40	12	8	2000	2400	400					
ROTATE	27/12/08 12:18	27/12/08 12:35	0.28	2464	2469	5	0	M	900	40	20	10	2000	2400	400					
SLIDE	27/12/08 12:41	27/12/08 14:12	1.52	2469	2484	15	60	M	900		7		2000	2100	100	Last 8 metres considered good slide.	2471.6	0.6	128.24	1.61
ROTATE	27/12/08 14:12	27/12/08 14:42	0.50	2484	2493	9	0	M	900	40	20	10	2000	2400	400					
ROTATE	27/12/08 15:00	27/12/08 15:35	0.58	2493	2510	17	0	M	900	40	20	7	2000	2400	400		2500.84	1.41	69.21	1.25
ROTATE	27/12/08 15:35	27/12/08 15:43	0.13	2510	2514	4	0	M	900	80	20	7	2000	2400	400	Took Check survey				
ROTATE	27/12/08 15:50	27/12/08 16:14	0.40	2514	2523	9	0	M	900	80	20	7	2000	2400	400					
SLIDE	27/12/08 16:30	27/12/08 17:45	1.25	2523	2533	10	60	M	900		8		2050	2100	50		2530.68	2.34	71.2	0.94
ROTATE	27/12/08 17:45	27/12/08 18:25	0.67	2533	2552	19	0	M	900	40	12	5	2050	2250	200					
ROTATE	27/12/08 18:48	27/12/08 19:20	0.53	2552	2583	31	0	M	900	80	12	5	2050	2300	250		2559.85	2.34	72.69	0.06
ROTATE	27/12/08 19:27	27/12/08 20:15	0.80	2583	2612	29	0	M	900	80	15	7	2050	2400	350		2589.92	2.25	73.44	0.09
ROTATE	27/12/08 20:38	27/12/08 21:24	0.77	2612	2641	29	0	M	900	80	15	8	2050	2400	350					
ROTATE	27/12/08 21:54	27/12/08 22:40	0.77	2641	2671	30	0	M	900	80	15	8	2050	2400	350		2648.85	2.04	82.16	0.2
ROTATE	27/12/08 23:03	28/12/08 0:45	1.70	2671	2692	21	0	M	900	80	13	7	2050	2200	150		2678.97	2.05	86.3	0.15
SLIDE	28/12/08 1:00	28/12/08 1:42	0.70	2692	2700	8	30	M	900		21		2050	2250	200	Could not achieve a consistant slide. Possible interbedded formation.				
ROTATE	28/12/08 2:02	28/12/08 2:14	0.20	2700	2705	5	0	M	900	40	13	7	2050	2200	150					
SLIDE	28/12/08 2:15	28/12/08 2:55	0.67	2705	2710	5	70	M	900		25		2050	2350	300	Could not achieve consistent slide at desired TF of 40 degrees MTF.	2708.38	2.63	86.65	0.59
ROTATE	28/12/08 2:55	28/12/08 3:25	0.50	2710	2725	15	0	M	900	40	20	8	2050	2350	300					
ROTATE	28/12/08 3:25	28/12/08 3:37	0.20	2725	2730	5	0	M	900	80	20	8	2050	2350	300					
ROTATE	28/12/08 4:05	28/12/08 4:25	0.33	2730	2740	10	0	M	900	80	20	8	2050	2400	350		2737.95	2.75	86.68	0.12
SLIDE	28/12/08 4:30	28/12/08 4:50	0.33	2740	2747	7	20	M	900		26		2050	2400	350					
ROTATE	28/12/08 4:50	28/12/08 5:20	0.50	2747	2759	12	0	M	900	40	20	8	2050	2350	300					
ROTATE	28/12/08 5:40	28/12/08 6:50	1.17	2759	2789	30	0	M	900	80	20	8	2050	2350	300		2767.46	3.28	73.47	0.88

Orienting Method	Start Time (d/m/yy h:mm)	End Time (d/m/yy h:mm)	Duration (hr)	Md From (m)	Md To (m)	Course (m)	TF Angle (°)	TF Mode (G/M)	Flow (GPM)	RPM (rpm)	WOB (klbs)	Torque (KFLB)	SPP Off Bot (PSI)	SPP On Bot (PSI)	Delta P (PSI)	Comment	Svy Md (m)	Incl (°)	Azmth (°)	DLS (° / 30 m)
ROTATE	28/12/08 7:07	28/12/08 7:55	0.80	2789	2807	18	0	M	900	100	15	7	2050	2350	300	TD	2783.95	3.22	72.34	0.16



Equipment Run Summary Report

9-Jan-2009
1:25PM

Job Number:	08ASQ0034	Company:	BEACH PETROLEUM LTD	Rig Name:	West Triton
Company Rep:	Rocco Rossouw, Peter Sheenhan	Location:	MEA-APG-ASQ	Well Name:	Fermat-1
Run Number:	4				

Run Information

Date In		Date Out		Drilling Distance:	785.00 m	Drilling Hours:	42.40 hrs
2-Jan-2009	7:40PM	7-Jan-2009	8:00PM	Rotary Drilling Distance:	785.00 m	Rotary Drilling Hrs:	42.40 hrs
Depth (MD):	2800.0 m	to	3585.0 m	Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Depth (TVD):	2798.5 m	to	3580.4 m	Reaming Distance:	875.00 m	Reaming Hours:	4.00 hrs
Inclination:	3.22 deg	to	7.28 deg			Hrs Below Rotary:	120.33 hrs
Azimuth:	72.75 deg	to	160.29 deg			Total Pumping Hrs:	72.60 hrs
Hole Size:	8.50 in					Min DLS:	0.38 deg/30 m
Last Casing Size:	9.630 in			North Ref Used:	Grid North	Max DLS:	0.65 deg/30 m
Last Casing Depth:	2800.5 m	(MD)		Magnetic Dec:	9.870 deg	Max DLS Depth:	3,569.4 m
Tool Face Arc:				Grid Correction:	-0.030 deg	Surface Screen:	No
Total Face Angle:		deg		Total Correction:	9.900 deg	DFS Used:	No
				Est. Mag. Int:	deg	Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	38.00 m	Pulse Damp Press:	700 psi
Air Gap:	15.00 m	Number of Pumps:	3
RKB Height:	42.90 m	Pump Line ID:	6.50 in
Ground Elevation:	80.85 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

Drill to 3500m MD providing GR, Res, APWD, Sonic, Density, Porosity, Caliper services in RT.

D&M Crew List:

Cell Manager: Joshua Seevaratnam
Crew: San thida Aung, LWD
Rika Kartorahardjo, MWD
Josh Seevaratnam, Cell Manager

DH Motor Information

Manufacturer:	Bit to Bend Dist:	m
Motor Type:	Bearing Play In:	in
Motor Size:	Bearing Play Out:	in
Serial No.:	Bent Sub Angle:	deg
Lobe Config:	Bent HSG Angle:	deg
Stage Length:		m
Rubber:		
Sleeve Position:		
Sleeve Size:		in
Bearing Type:		

RSS Information

RSS Manufacturer:	
RSS Type:	
RSS SN:	
RSS Size:	
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle:	deg
Rise Time Const:	
Fall Time Const:	
Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.08000 in	Turbine Config:	400-800 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	psi
SPT Type:	HA						

Job Number:	08ASQ0034	Company:	BEACH PETROLEUM LTD
Company Rep:	Rocco Rossouw, Peter Sheenhan	Location:	MEA-APG-ASQ
Run Number:	4		

Rig Name: West Triton
Well Name: Fermat-1

Drilling Parameters

	<u>Min</u>	<u>Max</u>	<u>Avg</u>	Total DH Shocks (k):	0 k
BH Temperature:	58.00 degC	80.00 degC	72.11 degC	Max Shock Level:	0
Surface RPM:	30.00 rpm	103.00 rpm	81.89 rpm	Max Shock Duration:	0 sec
ROP:	0.00 m/hr	18.08 m/hr	18.51 m/hr	Checkshot Type:	
Surface Torque:	0.01 kft.lbf	4.30 kft.lbf	2.92 kft.lbf	Checkshot Depth:	m
Flow Rate:	500.00 galUS/min	770.00 galUS/min	691.33 galUS/min	Checkshot Incl:	deg
WOB Sliding:				Checkshot Azim:	deg
				H2S In Well:	No
Average Pump Pressure:	51 psi				
Turbine RPM @ Min Flow Rate:	3,945 rpm	Min Flow Rate:	500.00galUS/min	SPP Off Bottom:	2,546.00 psi
Turbine RPM @ Max Flow Rate:	4,258 rpm	Max Flow Rate:	770.00galUS/min	SPP On Bottom:	2,552.00 psi

Mud Information

Mud Type:	Water Base	Mud Clean:	Yes	pH:	8.60
Mud Company:	Halliburton	LCM Type:		Chlorides:	68,109.00 ppm
Mud Brand:		LCM Size:		Sand Content:	0.75 %
Funnel Viscosity:	49.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	8.20 %
Plastic Viscosity:	21.00 cp	Weighting Material:	Barite	Percent Oil:	0.00 %
Yield Point:	38.00 lbm/100ft2	Mud Weight:	10.60 lbm/galUS		
Mud Resistivity:	0.10 ohm-m				

IADC Bit Grading

Manufacturer: Other	Total Revs:	IADC Code:
Model: SE36532	Stick/Slip:	Jets (/ 32 in): 6X14
Type: PDC	Reason Pulled: Total Depth/Casing Depth	Bit TFA: 0.90 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	1.00	CT	N		I	ER

End of Run - Summary

Sync Hours:	69.00	hrs	Downhole Noise:	No	Run Failed:	No	
Jamming:	No	0.00 hrs	Surface System Failure:	No	D&M Trip:	No	
Surface Vibration:	No		Surface Noise:	No	Low Oil Flag:	No	0.00 hrs
Trans Fail:	No		H2S in Well:	No	Filter Screen/Plug Shear:	No	

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

Brief Run Summary:

Overall good run with good RT data from LWD tools, however client decided to POOH and run wireline logs.

High stick slips observed throughout whole run, inform Co-man to try adjust drilling parameters (i.e. Reduce WOB, increase RPM) but he couldnt sacrifice ROP by reducing WOB.

Once BHA on surface, physical check on on tools, no signs of damage to ILS, transmitter shields, wearbands, ROP.

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

If not, why?:

Job Number: 08ASQ0034
Company Rep: Rocco Rossouw, Peter Sheenhan
Run Number: 4

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
ADDC-CE-40778	0.00 hrs	72.60 hrs	8.3	6.75 in
ARC6D-BB-2056	0.00 hrs	72.60 hrs	9.3B13	6.75 in
H524743-61947	0.00 hrs	72.60 hrs		6.75 in
H524743-61957	0.00 hrs	72.60 hrs		6.75 in
H524743-62428	0.00 hrs	72.60 hrs		6.75 in
H524743-62429	0.00 hrs	72.60 hrs		6.75 in
H524743-62431	0.00 hrs	72.60 hrs		6.75 in
H524743-62433	0.00 hrs	72.60 hrs		6.75 in
MDC-AE-VC64	0.00 hrs	72.60 hrs	9.2C02	6.75 in
SWD6-BA-649	0.00 hrs	72.60 hrs	6.6	6.75 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
LWD	Resistivity	arcVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	APWD	arcVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	Gamma Ray	arcVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
MWD	Shock and Vibration	TeleScope	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
MWD	Cont D&I	TeleScope	72.60 hrs		785.0 m	hrs			
MWD	D&I	TeleScope	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	Compressional DT	SonicVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	Caliper	adnVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	Density	adnVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	
LWD	Neutron	adnVision	72.60 hrs		785.0 m	120.33 hrs		785.0 m	



Job Number:

08ASQ0034

Company Rep:

Rocco Rossouw, Peter Sheenhan

Run Number:

4

Company:

BEACH PETROLEUM LTD

Location:

MEA-APG-ASQ

BHA Type:

Steerable Motor

Rig Name:

West Triton

Well Name:

Fermat-1

Item	Description	Vendor	Tool Name	Serial Number	Length		OD	ID	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Len
									OD	Len, m	OD	Size	Type	Size	Type	
1	BIT	Other	PDC	11001928	0.26	m	8.50	3.50						4 1/2"	REG PIN	0.26
2	NEAR BIT STAB			228096	1.86	m	6.50	2.81				4 1/2"	REG BOX	4 1/2"	IF PIN	2.12
3	LWD	D&M	arcVISION	2056	5.83	m	6.75	3.13				4 1/2"	IF PIN	5 1/2"	FH BOX	7.95
4	MWD	D&M	TeleScope	VC64	9.00	m	6.75	3.88				5 1/2"	FH PIN	5 1/2"	FH BOX	16.95
5	LWD	D&M	SonicVISION	649	8.19	m	6.75	3.75				5 1/2"	FH PIN	5 1/2"	FH PIN	25.14
6	LWD	D&M	adnVISION	40778	6.24	m	6.75	3.75				5 1/2"	FH BOX	4 1/2"	IF BOX	31.38
7	DRILL COLLAR			1111	93.28	m	6.50	2.88				4 1/2"	IF PIN	4 1/2"	IF BOX	124.66
8	JAR			1416-1495	9.89	m	6.88	2.75				4 1/2"	IF PIN	4 5/8"	IF BOX	134.55
9	DRILL COLLAR			66571-1	9.36	m	6.50	2.88				4 1/2"	IF PIN	4 1/2"	IF BOX	143.91
10	CROSSOVER			7148.00	1.22	m	7.00	2.81				4 1/2"	IF PIN	5 1/2"	NC56 BOX	145.13
11	HWDP			2222	56.23	m	7.00	3.06				5 1/2"	NC56 PIN	5 1/2"	NC56 BOX	201.36

Predicted BHA Tendency:

Hookload Out:

Pickup Out:

Slack Weight:

Wt Below Jars:

Wt Above Jars:

Total Air Wt:

Stab Description	Mid Pt to Bit	Blade			Gauge		
		Type	Len	Width	Len	In	Out

Bit to Read Out Port			Bit to Measurement Port		
LWD-arcVISION	5.60	m	arcVISION-APWD	3.82	m
MWD-TeleScope	10.30	m	arcVISION-Gamma Ray	4.58	m
LWD-SonicVISION	21.60	m	arcVISION-Resistivity	4.53	m
LWD-adnVISION	27.20	m	TeleScope-D&I	12.62	m
			SonicVISION-Compressional	21.97	m
			adnVISION-Caliper	27.93	m
			adnVISION-Density	28.35	m
			adnVISION-Neutron	29.35	m

Job Number: 08ASQ0034
Company Rep: Rocco Rossouw, Peter She
Run No: 4

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Depth in m						
From	To	Elapsed	From	To	IADC Activity	Description
<u>29-Dec-2008</u>						
00:00	03:00	3.00	0.0	0.0	PU / LD BHA / Tripping	L/D BHA
03:00	00:00	21.00	0.0	0.0	Run casing / cement	Run 9 5/8in Csg
<u>30-Dec-2008</u>						
00:00	12:00	12.00	0.0	0.0	Run casing / cement	Cement job
12:00	00:00	12.00	0.0	0.0	Wait on cement	WOC & service rig
<u>31-Dec-2008</u>						
00:00	12:00	12.00			Repair rig	Still trying to un-latch running tool for Csg hanger
<u>2-Jan-2009</u>						
00:00	02:00	2.00	0.0	0.0	Other	M/U combination tool with cup tester and RIH with wearbushing to 17m
02:00	03:00	1.00	0.0	0.0	Nipple up BOPs	Lift BOP and change seal on quick connector b/w wellhead and BOPs
03:00	08:30	5.50	0.0	0.0	Test BOP	Set wear bushing at 18.4m, test BOP
08:30	09:00	0.50	0.0	0.0	Test BOP	POOH with test assembly and wear bushing run tool and L/D same
09:00	14:30	5.50	0.0	0.0	Test BOP	Test BOP
14:30	16:30	2.00	0.0	0.0	Rig up / Rig down	M/U overshot and diviter
16:30	18:00	1.50	0.0	0.0	Repair rig	Troubleshoot diverter
18:00	22:00	4.00	0.0	0.0	PU / LD BHA / Tripping	P/U HWDP, M/U BHA
22:00	22:30	0.50	0.0	31.0	DD service quality	SHT for MWD ,all good,used 500psi
22:30	00:00	1.50	31.0	31.0	Other	Load RA source per SLB instruction
<u>3-Jan-2009</u>						
00:00	12:30	12.50	0.0	2800.0	PU / LD BHA / Tripping	Tripping in
12:30	13:20	0.83	2800.0	2800.0	Repair rig	Rig repair
13:20	00:00	10.67	2800.0	2800.0	Drilling	Drilling out of shoe
<u>4-Jan-2009</u>						
00:00	03:32	3.53	2800.0	2803.0	Drilling	Drilling ahead
03:32	04:48	1.27	2803.0	2803.0	Other	Leak off test
04:48	22:30	17.70	2803.0	3005.0	Drilling	Drilling ahead
22:30	23:00	0.50	3005.0	3005.0	Circulate / Condition mud	Flow check
23:00	00:00	1.00	3005.0	3019.0	Drilling	Drilling ahead
<u>5-Jan-2009</u>						
00:00	01:00	1.00	3012.0	3019.0	Circulate / Condition mud	Drilling ahead,circulate to reduce gas level
01:00	12:00	11.00	3019.0	3170.0	Drilling	Drillnig ahead
12:00	00:00	12.00	3170.0	3350.0	Drilling	Drilling ahead
<u>6-Jan-2009</u>						
00:00	13:00	13.00	3350.0	3585.0	Drilling	Drilling ahead. Called TD at 13:00
13:00	15:00	2.00	3585.0	3585.0	Circulate / Condition mud	Circulate hole clean
15:00	00:00	9.00	3585.0	3585.0	Circulate / Condition mud	Circulate, found tight spots.
<u>7-Jan-2009</u>						
00:00	01:00	1.00	3585.0	2880.0	Reaming / Hole opener / Unc	Ream stab thru shoe



Job Number: 08ASQ0034 **Company:** BEACH PETROLEUM LTD
Company Rep: Rocco Rossouw, Peter She **Location:** MEA-APG-ASQ
Run No: 4

Rig Name: West Triton
Well Name: Fermat-1

Depth in m						Description
From	To	Elapsed	From	To	IADC Activity	
01:00	03:00	2.00	2880.0	3451.0	PU / LD BHA / Tripping	RIH, drag observed
03:00	05:30	2.50	3451.0	3585.0	Reaming / Hole opener / Unc	Wash & Ream
05:30	07:00	1.50	3585.0	3585.0	Circulate / Condition mud	Circulatem B/U
07:00	07:30	0.50	3585.0	3549.0	PU / LD BHA / Tripping	TOOH, drag observed
07:30	08:00	0.50	3549.0	3585.0	Reaming / Hole opener / Unc	M/U TDS. Wash, ream back to bottom
08:00	09:30	1.50	3585.0	3585.0	Circulate / Condition mud	Circ
09:30	10:00	0.50	3585.0	3585.0	Repair rig	TDS SWL pkg leaked. repair
10:00	17:30	7.50	3585.0	614.0	PU / LD BHA / Tripping	POOH
17:30	18:00	0.50	614.0	614.0	Circulate / Condition mud	Pumped slug
18:00	20:00	2.00	614.0	31.4	PU / LD BHA / Tripping	continue to POOH
20:00	21:00	1.00	31.4	31.4	Other	Removed radioactive source
21:00	22:30	1.50	31.4	0.0	PU / LD BHA / Tripping	Break off bit, ND stab, MWD tools layed out
22:30	00:00	1.50	0.0	0.0	Wireline logs	Wireline starts to operate

Job Number: 08ASQ0034
Company Rep: Rocco Rossouw, Peter Sheen
Run Number: 4

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Date/Time	Depth	Description
29-Dec-2008 12:00AM	0.0 m	Cont L/D 12.25in BHA
29-Dec-2008 3:00AM	0.0 m	Process RM Sonic + ARC data, upload Sonic DLIS on InterAct for DCS processing
29-Dec-2008 6:00AM	0.0 m	Start running 9 5/8in csg
29-Dec-2008 7:00AM	0.0 m	Remove batteries from previous section tools
29-Dec-2008 8:30AM	0.0 m	Start preparing 6 3/4in for next section (programming, Depassivating batteries)
30-Dec-2008 12:00AM	0.0 m	Strap all tools (PR & BU)
30-Dec-2008 4:00AM	0.0 m	Create Final fishing diagrams
30-Dec-2008 5:00AM	0.0 m	Program all BU tools, check Extender resistance, go-no-go gauge
30-Dec-2008 8:00AM	0.0 m	Load batteries into Sonic + ADN
30-Dec-2008 10:00AM	0.0 m	Batteries inside Sonic (put magnet)
30-Dec-2008 10:45AM	0.0 m	Batteries inside ADN (put magnet)
30-Dec-2008 6:00PM	0.0 m	Batteries inside ARC, monitor tool, then back-off jamnut
31-Dec-2008 3:00AM	0.0 m	Still trying to un-latch running tool for Csg hanger
2-Jan-2009 9:05AM	2870.0 m	Re-initialise ADN. Replaced magnet with ROP.
2-Jan-2009 9:31AM	2870.0 m	Re-initialise ARC. Torqued up battery jamnut
2-Jan-2009 9:50AM	2870.0 m	Re-initialise Sonic. Replaced magnet with ROP. 10hrs trip-in time selected.
2-Jan-2009 12:38PM		
2-Jan-2009 6:35PM	2870.0 m	Sonic/ARC connection is made up. 23 kft/lbs
2-Jan-2009 7:07PM	2870.0 m	Sonic/Telescope connection is made up, 23 kft/lbs
2-Jan-2009 7:37PM	2870.0 m	M/U Bit.
2-Jan-2009 8:30PM	2870.0 m	M/U ADN/Sonic 23 kft/lbs
2-Jan-2009 8:33PM	2870.0 m	RA source loading Permit signed
2-Jan-2009 9:34PM	2870.0 m	Finish SHT.
2-Jan-2009 10:30PM	0.0 m	Bring Overpack to Catwalk, remove Transfer shield from Overpack to Rig floor
2-Jan-2009 10:40PM	0.0 m	Hold Safety meeting on Rig floor, ensure all personnel know their roles & responsibility, ensure barrier tapes at staircases, make PA Safety announcement (keeping all non-essential personnel clear of Rig floor & BOP area).
2-Jan-2009 10:50PM	0.0 m	Remove shipping cap from source receptacle, open four rods on Transfer shield, move Upper Transfer shield onto tool
2-Jan-2009 11:05PM	0.0 m	Latch source with Handling tool, and lower into tool, rotating anti-clockwise
2-Jan-2009 11:15PM	0.0 m	Tried to feel the threads engage (i.e. click) but don't get it. Try to lift up the handling tool by hand, unable too. Get help from Roughneck, still unable to free handling tool (with source).
2-Jan-2009 11:30PM	0.0 m	Called a time-out, explain to Driller current situation, informed Co-man too, decided to call town for other ideas/solutions.
2-Jan-2009 11:40PM	0.0 m	Spoke to Operations Support Centre and they suggested the following: i) Push handling tool downwards and turn anti-clockwise, try to free the source with handling tool, and bring up to Transfer shield once again. ii) Once source in Transfer shield, lock it and inspect the source fishing head, the handling tool head make sure the heads are correctly engaged. iii) Go down once again, and try to get the source correctly seated in the receptacle.
2-Jan-2009 11:50PM	0.0 m	Return to Rig floor, explain to crew what we're gonna do, and Rig night crew come on tour (crew change)
3-Jan-2009 12:00AM	0.0 m	We try to free the handling tool once again, new Driller (which just came on shift) came out to help us. He pulled the slack tugger line from the main tugger physically with his body strength (not using the air supply) and handling tool came loose.
3-Jan-2009 12:10AM	0.0 m	We bring the handling tool with the source back to the Transfer shield, lock the source back into the Transfer shield using both Primary & Secondary locks and check the handling tool head, check the source fishing head.

Date/Time	Depth		Description
3-Jan-2009 12:25AM	0.0	m	Once satisfied that the Handling tools head is fine & the source fishing head is fine & not damaged, go down again with the Handling tool & source, rotating anti-clockwise. Once in the receptacle, feel the threads engage (click) and torque it up 6 ½ turns clockwise. It tightens up exactly at 6 ½ turns and once confirmed, unlatch the handling tool from the source and remove the handling tool.
3-Jan-2009 12:35AM	0.0	m	Remove upper Transfer shield from tool, assemble it back together with the lower end, use Survey meter to confirm the source is not in the Transfer shield, survey around the Rig floor area to ensure all is safe, move back Transfer shield to Overpack, call Rig crew back to continue M/U BHA.
3-Jan-2009 12:40AM	0.0	m	Finish source loading. 55 microSievert = source in shield 9.5 microSievert = source in tool (before source unlatched from ADLT) 200 microSievert = double check source, after source unlatched from ADLT.
3-Jan-2009 12:30PM	2700.0	m	Drop in Standpipe pressure, troubleshooting
3-Jan-2009 2:30PM	2752.0	m	Tag TOC, start drilling cement
3-Jan-2009 7:30PM	2796.0	m	Drilling out cement.
3-Jan-2009 8:06PM	2798.0	m	Reduced the flow to less than 400gpm and stop getting signal
3-Jan-2009 11:59PM	2800.0	m	Midnight depth
4-Jan-2009 12:00AM	2800.0	m	Midnight depth and drilling out of shoe, with total flow 1749 l/m
4-Jan-2009 12:41AM	2803.0	m	Circulate bottoms up
4-Jan-2009 12:59AM	2804.0	m	Drill ahead with 51strokes par each pump, 600gpm, ROP 11m/h
4-Jan-2009 2:06AM	2810.0	m	Still drilling through rat hole. ROP 5m/h
4-Jan-2009 3:32AM	2811.0	m	LOT
4-Jan-2009 4:48AM	2811.0	m	Start circulate with 61strokes /min
4-Jan-2009 10:00AM	2851.0	m	Mud Test/Env Corr MW=10.3ppg Rm= 0.1054 ohm.m @ 24.6 degC Pottasium = 3.54% Dt = 186.82 us/ft Borehole salinity = 72.725 ppk PH = 10 PV = 14 cP FV = 44 s/qt YP = 32 lbm/100ft2
4-Jan-2009 10:18AM	2851.0	m	High stick slip, inform Co-man, he agreed to increase RPM, but not WOB (i.e need ROP)
4-Jan-2009 5:29PM	2947.0	m	SCR
4-Jan-2009 5:57PM	2949.0	m	Drilling ahead with avg rop 20,60strokes per each pump , tflow 700gpm,wob25,high stick slips,cant do anything, informed coman and driller
4-Jan-2009 7:41PM	2977.0	m	Drilling ahead with avg rop 20,tflow 700gpm, 60strokles per each pump. rpm 77,wob27
4-Jan-2009 8:51PM	3001.0	m	Flow check
4-Jan-2009 9:00PM	3001.0	m	Drill ahead ,change pump from 1 ,2 to 1,3..60strokes per each pump.600gpm
4-Jan-2009 10:31PM	3008.0	m	Drill ahead with rop 10, tflow 660gpm, 60 from pump 1and 2.
4-Jan-2009 10:48PM	3012.0	m	Drilling ahead ,formation change, gr low, resistivity high
4-Jan-2009 11:29PM	3019.0	m	Circulate about 30 minutes ,
4-Jan-2009 11:58PM	3019.6	m	On bottom drilling
5-Jan-2009 12:00AM	3019.0	m	Midnight depth
5-Jan-2009 1:18AM	3035.0	m	Drill ahead with rop 7, rpm 106,wob26, tflow 770gpm
5-Jan-2009 1:58AM	3037.0	m	Drill ahead with rop 10, rpm 130, tflow 770
5-Jan-2009 2:00AM	3040.9	m	Lost of signal. Signal came back at 02:17AM. Rig changed pump config. (Recycled pump & noise training)
5-Jan-2009 2:25AM	3049.0	m	antijam until 02:35 suspect: the addition of "Easy Mud", PHPA.
5-Jan-2009 3:11AM	3056.9	m	flow checking 6 minutes
5-Jan-2009 3:24AM	3058.2	m	drilling ahead ROP 13.65, RPM 94, TFLOW 678GPM, TRPM 3984 WOB29.3
5-Jan-2009 12:02PM	3189.0	m	Speak to Co-man again about high stick slip, try to mitigate. stick=200rpm, crpm= 60-120, srpm=92.
5-Jan-2009 5:50PM	3276.0	m	Drilling ahead , 61 strokes per minutes for each pump,, rpm 79, tflow 720gpm, , stick 180
5-Jan-2009 7:50PM	3304.0	m	Drilling ahead , 61 strokes per minute, rpm 79.,surface tourque 3.59,tflow 700gpm,stick 183
5-Jan-2009 9:44PM	3331.0	m	Drill ahead with good signal, tflow 700, rpm82

Date/Time	Depth		Description
5-Jan-2009 10:30PM	3340.0	m	Mud Test/Env Corr MW=10.6ppg Borehole Salinity=66.504ppk PV=16cP FV=54s/qt YP=36lbm/100ft ² Rm=0.1053 ohm.m @ 24.3degC Rf=0.0808 ohm.m @ 24degC Rmc=0.1216 ohm.m @ 25.1degC Pottasium=3.64% Dt=185.68us/ft Form Temp gradient = 0.9deg/100ft
5-Jan-2009 11:59PM	3360.0	m	Midnight depth
6-Jan-2009 12:00AM	3360.0	m	Midnight depth,Drilling ahead with rop 20, rpm 78, tflow 710gpm
6-Jan-2009 1:12AM	3387.0	m	Drilling ahead , rop 20, tflow 713gpm, stick slips 192, rpm 89
6-Jan-2009 2:18AM	3406.0	m	Drilling ahead ROP 25, Tflow 714GPM, stickslip 189, RPM 89
6-Jan-2009 3:53AM	3429.0	m	Drilling ahead, ROP 24.76, Tflow 714 stickslip 189 RPM 93
6-Jan-2009 9:30AM	3506.0	m	Mud test/Env Corr MW=10.6ppg Rm=0.1049 ohm.m @ 24.3degC Rf=0.0839 ohm.m @ 24.3degC Rmc=0.1968 ohm.m @ 24.1degC Pottasium=3.64% Dt=183.495us/ft Borehole Salinity=68.109ppk Form Temp Gradient=0.9deg/100ft PV=21cP FV=49s/qt YP=38lbm/100ft ²
6-Jan-2009 1:00PM	3585.6	m	Run 4 TD @ 3585.63m MD. Client decide to run Wireline logs and rack-back current BHA so if decided to drill ahead further after running Wireline logs, will use same BHA.
6-Jan-2009 3:12PM	3500.0	m	Decided to POOH. If experience tight spots, do wiper trip. Circulate
7-Jan-2009 12:00AM	3585.6	m	midnight depth. Just have been circulating. Found tight spots.
7-Jan-2009 2:13AM	3585.6	m	start wiper trip
7-Jan-2009 9:00AM	3585.0	m	Increase MW to 11ppg and start POOH
7-Jan-2009 7:00PM	3585.0	m	Held JSA prior to source unloading
7-Jan-2009 7:15PM	3585.0	m	Transfer shield on rig floor
7-Jan-2009 7:19PM	3585.0	m	ADLT in the tool - unloading source
7-Jan-2009 7:25PM	3585.0	m	ADLT in tool - source latched
7-Jan-2009 7:36PM	3585.0	m	source in shield ~30 mS
7-Jan-2009 7:44PM	3585.0	m	put source cap back into tool
7-Jan-2009 7:55PM	3585.0	m	scanned ADN windows. ~ 1.5 mS
7-Jan-2009 8:00PM	3585.0	m	Bit on RT
7-Jan-2009 8:45PM	3585.0	m	Break up SLB tool connections + flush. 15 Minutes.
8-Jan-2009 7:00AM	0.0	m	Remove batteries from all tools



Job Number: 08ASQ0034
Company Rep: Rocco Rossouw, Peter Sheenhan
Run Number: 4

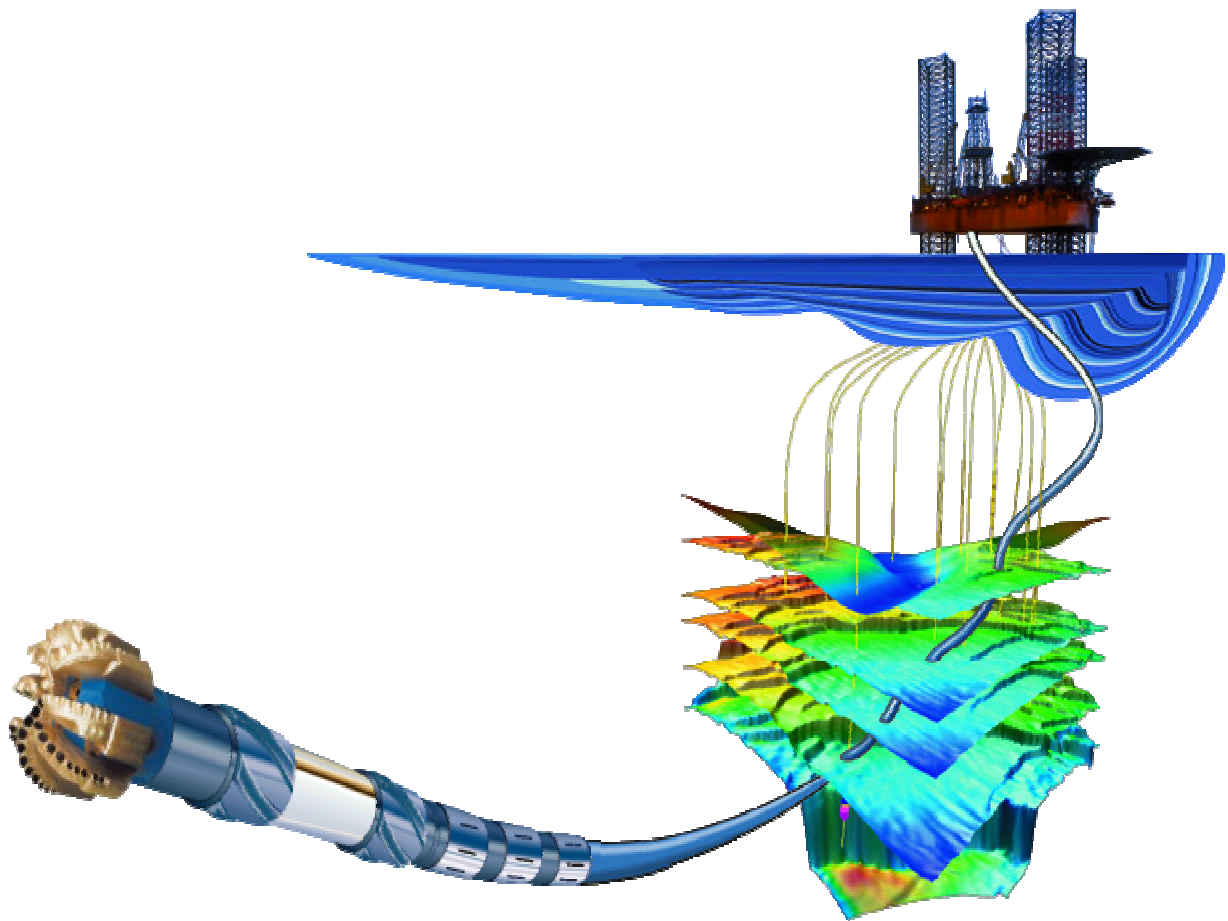
Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

	06-Jan-2009 6:15 AM	06-Jan-2009 4:12 AM	06-Jan-2009 1:58 AM	06-Jan-2009 12:04 AM	05-Jan-2009 11:23 AM	05-Jan-2009 1:59 AM	04-Jan-2009 7:54 PM
Field Engineer	Rika Kartorahardjo	Rika Kartorahardjo	Rika Kartorahardjo	San thida Aung	Josh Seevaratnam	Rika Kartorahardjo	San thida Aung
Depth	3,470.09 m	3,436.46 m	3,396.29 m	3,363.00 m	3,182.00 m	3,037.81 m	2,982.00 m
Avg ROP	9.79 m/hr	9.79 m/hr	9.79 m/hr	9.79 m/hr	13.79 m/hr	13.79 m/hr	9.13 m/hr
On Bottom ROP	18.08 m/hr	18.08 m/hr	18.08 m/hr	18.08 m/hr	17.38 m/hr	17.38 m/hr	15.87 m/hr
Flow Rate	714.00 galUS/min	714.00 galUS/min	714.00 galUS/min	710.00 galUS/min	700.00 galUS/min	770.00 galUS/min	700.00 galUS/min
Turbine RPM	4,023 rpm	4,023 rpm	4,023 rpm	3,984 rpm	3,984 rpm	4,258 rpm	3,906 rpm
Surface RPM	95 rpm	93 rpm	89 rpm	79 rpm	90 rpm	103 rpm	78 rpm
WOB Rotating	47.00 klbm				25.00 klbm	29.10 klbm	30.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	4.30 kft.lbf	3.26 kft.lbf	4.12 kft.lbf				
DH Torque							
Hookload	250 klbm	248 klbm	244 klbm	290 klbm	242 klbm	240 klbm	232 klbm
PickUp Weight							
Slack Weight							
Friction							
SPP On Bottom	3,201.00 psi	3,281.00 psi	3,268.00 psi	3,210.00 psi	2,900.00 psi	2,880.00 psi	2,763.00 psi
SPP Off Bottom					2,850.00 psi		
Diff Pressure					50 psi		
BH Temperature	80.00 degC	79.00 degC	78.00 degC	77.00 degC	74.00 degC	71.00 degC	68.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib							1
Axial Vib							1
CRPM	113 rpm	61 rpm	131 rpm	78 rpm	63 rpm	115 rpm	78 rpm
Stick/Slip	213	177	189	183	183	186	162
Formation	Siltstone	Siltstone	Siltstone	Siltstone	Siltstone	Siltstone	Siltstone
Signal Strength	21.90 psi	22.50 psi	24.00 psi	27.00 psi	31.90 psi	29.00 psi	29.00 psi
Percent Signal Conf	82 %	78 %	84 %	81 %	91 %	79 %	86 %

	04-Jan-2009 10:33 AM	04-Jan-2009 3:05 AM
Field Engineer	Josh Seevaratnam	San thida Aung
Depth	2,854.00 m	2,811.00 m
Avg ROP	9.13 m/hr	9.13 m/hr
On Bottom ROP	15.87 m/hr	15.87 m/hr
Flow Rate	700.00 galUS/min	500.00 galUS/min
Turbine RPM	3,867 rpm	3,945 rpm
Surface RPM	80 rpm	30 rpm
WOB Rotating	23.00 klbm	20.00 klbm
WOB Sliding		
DH WOB		
Surface Torque		.01 kft.lbf
DH Torque		
Hookload	232 klbm	227 klbm
PickUp Weight		
Slack Weight		
Friction		
SPP On Bottom	2,678.00 psi	2,552.00 psi
SPP Off Bottom	2,580.00 psi	2,546.00 psi
Diff Pressure	98 psi	6 psi
BH Temperature	64.00 degC	58.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		1
Lateral Vib	1	1
Axial Vib	2	1
CRPM	74 rpm	50 rpm
Stick/Slip	105	
Formation	Sandstone	
Signal Strength	34.90 psi	38.00 psi
Percent Signal Conf	78 %	73 %

5. Service Quality Issues



Job Number: 08ASQ0034
Company Rep: Sean Defreitas,Peter Sheehan
Run Number: 1

Company: BEACH PETROLEUM LTD
Location: MEA-APG-ASQ

Rig Name: West Triton
Well Name: Fermat-1

Failure Number: 1

Fail Date: 17-Dec-2008
Severity: Light
CAF: NO
Lost Rig Time: hrs

Pump Hour @ Fail: 30.00 hrs
Drill Hours @ Fail: 20.00 hrs
Hours BRT @ Fail: 20.00 hrs
Depth @ Fail: 950.0 m

Failed Services:

SonicVision (Compressional DT)

Failed Equipment:

SD9C-AA - 42793

Failure Description and Symptoms

Completed By: San thida Aung
Date: 18-Dec-2008

Pressure and turbine rpm drop frequently while total flow still constant. Even pressure bing back, it still very less amount. Assumed wash out above MWD and informed coman, driller and OSC. The driller keep drilling to reach TD. When POOH, the bit lost teeth/cutter and nozzle. The sonic tool transmitter broken off. From the latest investigation, the pumps have also problems.

Remedial Action Attempted on Location

Completed By: San thida Aung
Date: 18-Dec-2008

Informed coman, driller whenever the pressure and trpm dropping and explained them the possible outcomes. Working with OSC throught the time. Client keep drilling to reach TD.