

COMPLETION

MUD / SURVEY DATA

PLUGS

FORMATION

PALYNOLOGY

AGE

SCALE: 1:200

TOP LATROBE GROUP  
1644.0mMDRT  
1619mTVDSS

1650

SST

1650

SST

1675

SST

1700

SST

1725

SST

1750

SST

1775

SST

1800

SST

P 1/2 /1

P 1/2 /2

P 1/2 /3

P 1/2 /4

P 1/2 /5

P 1/2 /6

P 1/2 /7

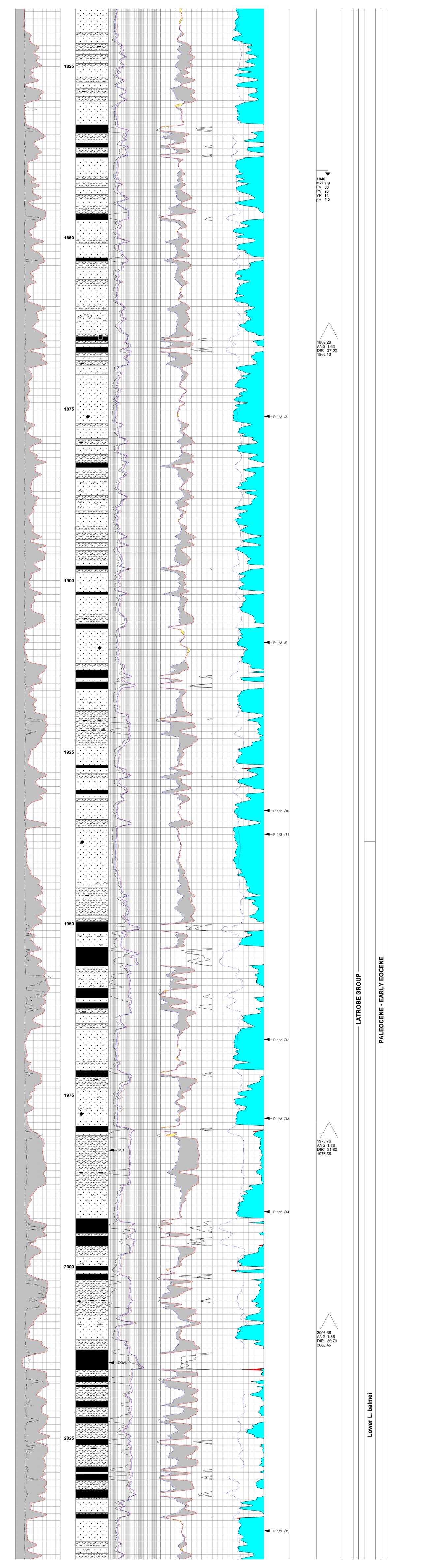
1659.56  
ANG 1.34  
DIR 25.80  
1659.50

1746.16  
ANG 1.46  
DIR 24.80  
1746.08

1800.66  
ANG 1.55  
DIR 26.90  
1800.56

Undiff. L.w. N. asper. - P. asperopolus

P. asperopolus

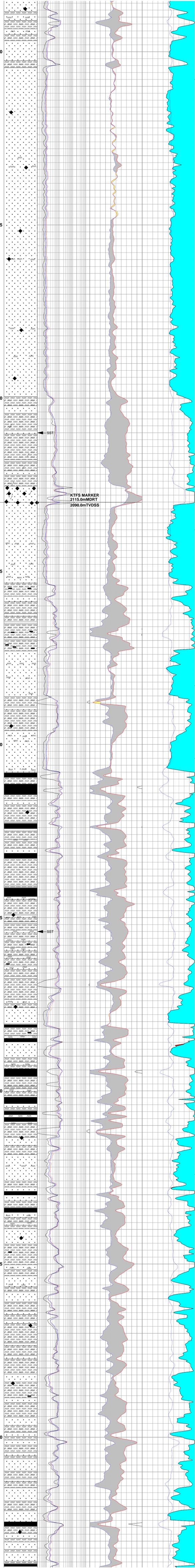


LATROBE GROUP

PALEOCENE - EARLY EOCENE

Lower L. balmei

2050  
2075  
2100  
2125  
2150  
2175  
2200  
2225  
2250



2054  
MW 10  
FV 65  
PV 24  
YP 19  
pH 9.2

2094.00  
ANG 1.87  
DIR 33.50  
2093.77

2107  
MW 10  
FV 63  
PV 22  
YP 16  
pH 9.2

2119.76  
ANG 1.79  
DIR 31.60  
2119.42

2147.16  
ANG 1.72  
DIR 30.80  
2146.80

2177.76  
ANG 1.78  
DIR 27.50  
2177.39

2205.76  
ANG 1.89  
DIR 24.20  
2205.37

2234.96  
ANG 1.84  
DIR 25.10  
2234.96

2235  
MW 10.1  
FV 62  
PV 24  
YP 22  
pH 8.5

2265.46

Iw. Lower L. balmei

ANG 2.00  
DIR 22.90  
2265.44

2293.56  
ANG 1.86  
DIR 20.50  
2293.53

2322.66  
ANG 1.98  
DIR 20.10  
2322.61

2350.66  
ANG 2.01  
DIR 17.10  
2350.18

2352  
MW 10.1  
FV 60  
PV 21  
YP 20  
pH 9.1

2379.56  
ANG 2.13  
DIR 17.10  
2379.06

2401.70  
ANG 2.60  
DIR 342.39  
2401.38

2440  
MW 10.1  
FV 59  
PV 22  
YP 19  
pH 9

2449  
MW 10.1  
FV 59  
PV 24  
YP 19  
pH 8.9

2471  
MW 10.1  
FV 68  
PV 22  
YP 18  
pH 9

Prob. T. longus

LOWER LATROBE GROUP

2275

2300

2325

2350

2375

2400

2425

2450

2475

P 1/2 /21

P 1/2 /22

P 1/2 /23

P 1/2 /24

P 1/2 /25

P 1/2 /26

SST Strong bluish white direct fluorescence

SST

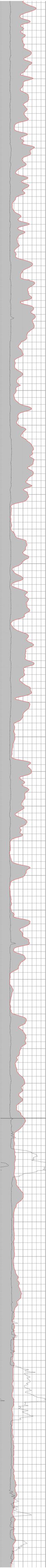
TOP VOLCANICS  
2430.0mMDRT  
2405mTVDSS

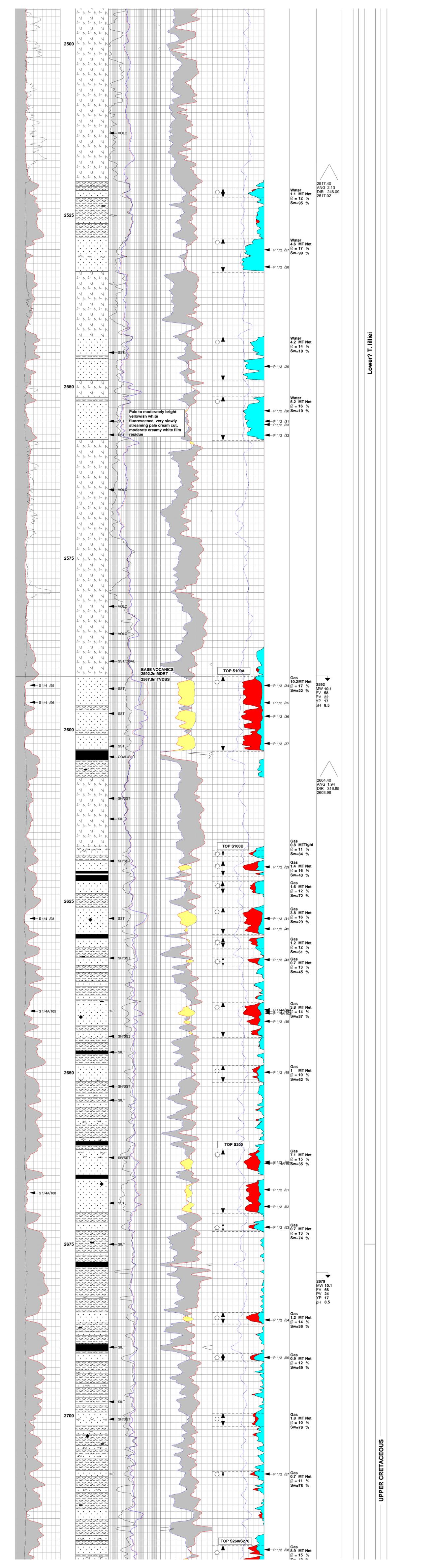
SST

VOLG

VOLG

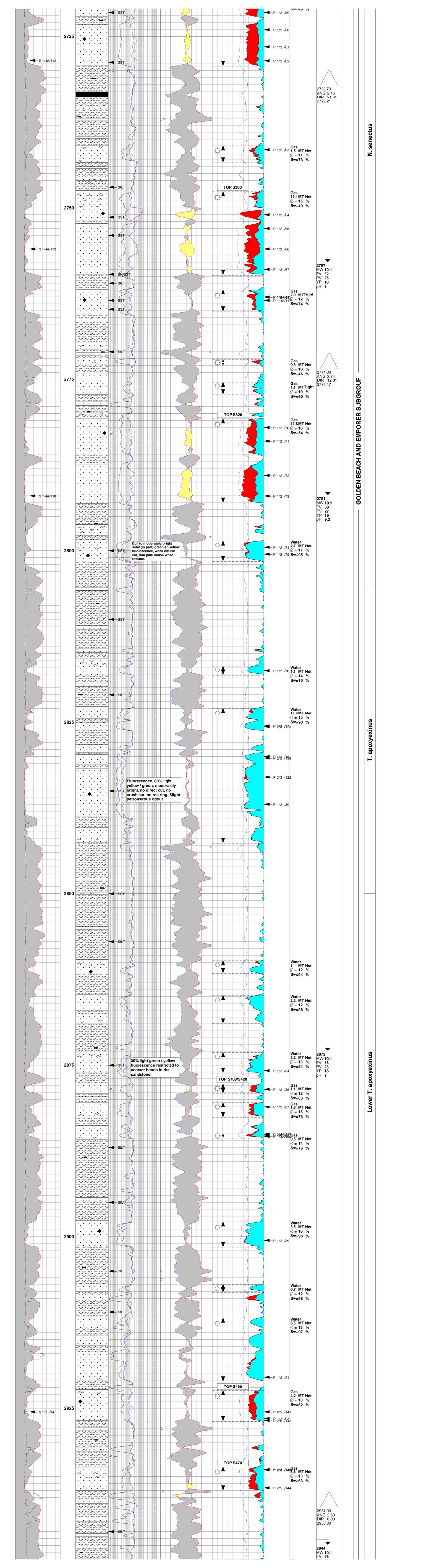
VOLG

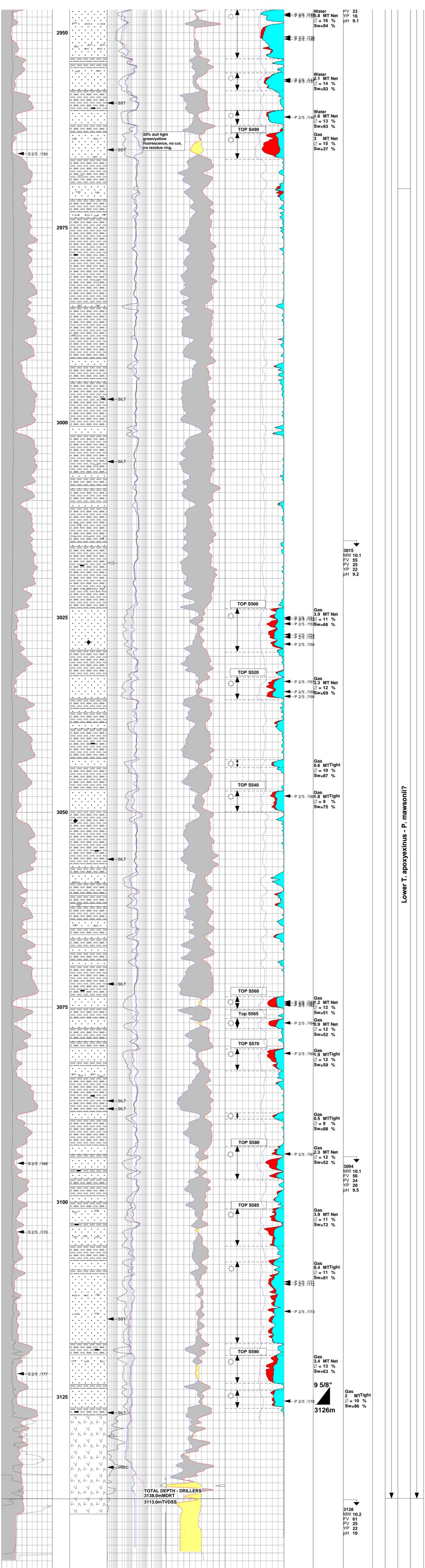




Lower? T. lilliei

UPPER CRETACEOUS





**EAST PILCHARD 1**

**PETROPHYSICS ANALYSIS SUMMARY 2520 - 3143 m MD**

Net porosity cut-off: 0.080 volume per volume  
 Depth reference: MDKB

Net Porous Interval based on Porosity cut-off only.

GROSS INTERVAL		NET POROUS INTERVAL										Remarks	Net Pay
metres top	metres base	Gross Metres	Net Metres	Net to Gross(%)	Mean VCL	(Std.) (Dev.)	Mean PHIE	(Std.) (Dev.)	Mode PHIE	Mean SWE			
2521.10	2522.40	1.3	1.1	81	0.27	0.10	0.120	0.018	0.110	0.95	Water Bearing		
2528.40	2533.30	4.9	4.6	93	0.12	0.12	0.170	0.034	0.200	0.99	Water Bearing		
2542.70	2549.10	6.4	4.2	66	0.17	0.12	0.140	0.034	0.180	1.00	Water Bearing		
2551.40	2557.80	6.3	5.2	82	0.11	0.10	0.160	0.026	0.170	1.00	Water Bearing		
2592.20	2603.10	10.9	10.2	94	0.08	0.11	0.170	0.036	0.200	0.22	Gas Bearing	Y	
2617.60	2618.40	0.8	0.8	100	0.31	0.06	0.110	0.021	0.090	0.84	Gas Bearing, tight	N	
2619.10	2621.30	2.2	1.4	60	0.22	0.16	0.160	0.043	0.200	0.43	Gas Bearing	Y	
2622.10	2623.90	1.8	1.6	89	0.27	0.05	0.120	0.013	0.130	0.72	Gas Bearing, low productivity	Y	
2625.90	2629.80	3.9	3.8	95	0.11	0.10	0.160	0.029	0.170	0.29	Gas Bearing	Y	
2630.30	2631.80	1.5	1.2	80	0.23	0.17	0.120	0.020	0.130	0.61	Gas Bearing	Y	
2633.20	2634.40	1.2	1.1	61	0.11	0.09	0.130	0.024	0.140	0.45	Gas Bearing	Y	
2639.70	2644.80	5.1	3.7	75	0.15	0.12	0.140	0.036	0.120	0.37	Gas Bearing	Y	
2648.90	2651.40	2.6	1.0	39	0.17	0.08	0.100	0.009	0.100	0.62	Gas Bearing	Y	
2661.20	2670.50	9.2	7.1	76	0.11	0.08	0.150	0.025	0.170	0.35	Gas Bearing	Y	
2672.00	2673.10	1.1	0.7	67	0.17	0.04	0.130	0.022	0.150	0.74	Gas Bearing, low productivity	Y	
2684.90	2686.60	1.8	1.2	69	0.18	0.13	0.140	0.025	0.170	0.36	Gas Bearing	Y	

2690.90	2692.10	1.2	0.9	74	0.18	0.08	0.120	0.014	0.130	0.69	Gas Bearing, low productivity	Y
2699.60	2701.50	1.9	1.8	92	0.28	0.07	0.100	0.010	0.090	0.76	Gas Bearing, low productivity	Y
2708.10	2708.90	0.9	0.7	72	0.23	0.05	0.110	0.016	0.100	0.78	Gas Bearing, thin sand, low productivity	Y
2718.90	2729.30	10.4	8.9	85	0.14	0.08	0.150	0.024	0.160	0.40	Gas Bearing	Y
2740.90	2743.40	2.5	1.5	59	0.32	0.10	0.110	0.018	0.100	0.73	Prob. Gas bearing, tight	N
2747.60	2759.80	12.1	10.1	83	0.13	0.13	0.150	0.034	0.160	0.49	Gas Bearing	Y
2761.90	2765.10	3.2	2.9	90	0.11	0.08	0.120	0.022	0.110	0.74	Gas Bearing, low productivity	Y
2772.10	2773.00	0.9	0.3	39	0.24	0.02	0.100	0.011	0.100	0.46	Gas Bearing	Y
2775.40	2777.00	1.9	1.1	57	0.22	0.08	0.100	0.010	0.100	0.90	Gas Bearing, tight	N
2780.70	2793.00	12.3	10.6	86	0.06	0.06	0.160	0.034	0.200	0.54	Gas Bearing	Y
2798.50	2801.50	3.0	2.7	90	0.11	0.05	0.170	0.021	0.180	0.95	Water Bearing	Y
2816.80	2818.10	1.3	1.1	85	0.16	0.09	0.140	0.021	0.160	1.00	Water Bearing	Y
2822.90	2842.60	19.7	14.4	73	0.13	0.10	0.150	0.032	0.180	0.98	Water Bearing	Y
2859.70	2861.60	1.9	1.0	53	0.24	0.13	0.120	0.021	0.140	0.94	Water Bearing	Y
2864.80	2868.90	4.1	2.2	53	0.33	0.06	0.120	0.028	0.140	0.98	Water Bearing	Y
2873.10	2876.10	3.0	2.2	74	0.25	0.10	0.130	0.022	0.140	0.94	Water Bearing	Y
2877.70	2879.10	1.4	1.1	76	0.12	0.10	0.120	0.016	0.130	0.63	Gas Bearing	Y
2880.40	2882.60	2.2	1.8	80	0.2	0.05	0.130	0.013	0.140	0.73	Gas Bearing, low productivity	Y
2885.00	2885.60	0.6	0.5	77	0.1	0.05	0.140	0.023	0.170	0.76	Gas Bearing, thin sand, low productivity	Y
2897.80	2901.50	3.7	3.5	93	0.16	0.07	0.160	0.027	0.170	0.98	Water Bearing	Y
2906.90	2908.10	1.2	0.7	54	0.2	0.06	0.120	0.015	0.130	0.98	Water Bearing	Y
2911.80	2921.10	9.3	6.5	69	0.22	0.12	0.130	0.026	0.140	0.97	Water Bearing	Y
2922.40	2926.90	4.5	4.2	94	0.21	0.08	0.130	0.018	0.140	0.62	Gas Bearing	Y
2933.50	2937.00	3.5	3.3	94	0.18	0.09	0.130	0.019	0.130	0.63	Gas Bearing	Y
2947.00	2953.30	6.3	5.8	91	0.14	0.09	0.160	0.030	0.150	0.94	Water Bearing	Y
2955.10	2957.40	2.3	2.1	89	0.2	0.05	0.140	0.026	0.160	0.93	Water Bearing	Y
2959.90	2961.80	1.9	1.6	79	0.25	0.07	0.130	0.015	0.130	0.93	Water Bearing	Y
2962.80	2966.20	3.4	3.0	88	0.09	0.07	0.150	0.031	0.170	0.37	Gas Bearing	Y
3023.80	3029.40	5.6	3.9	68	0.25	0.09	0.110	0.016	0.120	0.66	Gas Bearing, low productivity	Y
3032.60	3035.50	2.9	2.3	81	0.18	0.06	0.120	0.019	0.140	0.69	Gas Bearing, low productivity	Y
3043.20	3044.20	0.9	0.6	58	0.18	0.02	0.100	0.005	0.100	0.87	Gas Bearing, tight	N
3047.20	3049.90	2.7	1.8	65	0.28	0.05	0.090	0.010	0.080	0.75	Gas Bearing, tight	N
3073.60	3075.20	1.7	1.2	71	0.1	0.04	0.120	0.017	0.130	0.51	Gas Bearing	Y
3076.40	3077.70	1.2	0.9	68	0.13	0.07	0.120	0.015	0.130	0.52	Gas Bearing	Y
3080.30	3083.10	2.8	1.9	69	0.2	0.05	0.120	0.020	0.140	0.59	Gas Bearing, tight	N
3088.50	3089.30	0.8	0.5	56	0.16	0.03	0.090	0.006	0.090	0.88	Gas Bearing, tight	N
3092.80	3097.10	4.4	2.3	52	0.18	0.06	0.120	0.022	0.120	0.52	Gas Bearing, thin sand, low productivity	Y
3100.80	3105.60	4.8	3.9	80	0.23	0.06	0.110	0.021	0.100	0.72	Gas Bearing, thin sand, low productivity	Y
3107.60	3118.10	10.5	8.4	80	0.2	0.05	0.110	0.016	0.130	0.81	Gas Bearing, tight	N
3119.60	3123.20	3.7	3.4	92	0.2	0.08	0.130	0.023	0.150	0.63	Gas Bearing	Y
3124.10	3126.40	2.3	2.0	85	0.19	0.05	0.100	0.008	0.090	0.86	Gas Bearing, tight	N

Net Pay Flag: Y=Yes N=No  
**NET GAS PAY = 100.7 m**

Sample No	Depth	Amb He Porosity	Amb Perm to Air	Amb Klinkenberg Perm	Ovb Pressure	Ovb He Porosity	Ovb Perm to Air	Ovb Klinkenberg Perm	Grain Density	Remarks	DPor Amb-OB	Depth Shift
	(m)	frac	(mD)	(mD)	(psi)		(mD)	(mD)	(g/cm <sup>3</sup> )			m
3	2594.0	0.206	3750.000	3630.000	4400	0.182	3470.000	2890.000	2.64		0.024	0.00
4	2598.0	0.195	3280.000	2870.000	4400	0.159	2630.000	2600.000	2.64		0.036	-0.37
5	2602.0	0.192	1570.000	1460.000	4400	0.147	1290.000	1190.000	2.64		0.045	0.39
7	2620.0	0.060	0.004	0.001	4450	0.055	0.000	0.001	2.68		0.005	-0.87
8	2627.5	0.172	135.000	131.000	4450	0.148	117.000	112.000	2.64		0.024	0.00
9	2633.5	0.052	19.200	5.800	4500	0.022	0.410	0.170	2.36	Frac	0.030	-0.22
11	2644.0	0.019	0.001	0.001	4500	0.015	0.001	0.001	2.64		0.004	0.70
12	2652.0	0.079	0.018	0.001	4550	0.069	0.001	0.001	2.63		0.010	0.00
13	2663.0	0.160	30.800	26.300	4550	0.141	24.200	20.400	2.65		0.019	-0.62
15	2700.5	0.139	0.730	0.470	4650	0.119	0.320	0.150	2.64		0.020	0.00
17	2721.5	0.179	61.800	55.500	4700	0.160	53.300	48.300	2.65		0.019	0.00
18	2728.5	0.176	573.000	531.000	4700	0.140	463.000	444.000	2.64		0.036	0.28
19	2751.0	0.195	57.900	47.700	4750	0.166	41.700	31.800	2.66		0.029	0.37
21	2759.0	0.042	0.010	0.001	4750	0.037	0.001	0.001	2.60		0.005	0.70
22	2763.0	0.144	13.100	10.200	4800	0.101	6.100	4.660	2.66		0.043	0.51
23	2764.5	0.170	118.000	113.000	4800	0.147	94.800	83.200	2.65		0.023	0.28

<b>ESSO AUSTRALIA PTY LTD</b>	<b>MDT Table</b>
Well: East Pilchard - 1	
Date: 25-28/07/2001	Geologist-Engineer: M.Woodmansee / A.Ribeiro
Tool Type: MDT	KB (metres): 25.0
Gauge Type: CQG and Strain	Probe type: Large
Pressure units (psia, psig)	Temperature units: DegC

Sample No	Depth	Depth	Strain Gauge (SG)		Quartz Gauge (CQG)			SG	CQG	Comments	Mobility
	mRT	mSS	Hyd before	Reservoir	Hydro	Reserv.	Temp	Hyd after	Hyd after		
			psig	psig	psia	psia	deg C				
<b>Suite 1 Run 3</b>											
1	1689.03	1663.94	2952.00	2369.90	2942.50	2362.68	74.90	2952.70	2943.90	20cc DD	549.7
2	1694.47	1669.38	2962.20	2381.90	2953.50	2374.87	75.83	2962.30	2953.14	20cc DD	1238.0
3	1709.54	1684.44	2987.70	2405.50	2979.27	2398.61	76.45	2988.10	2979.23	20cc DD	4421.0
4	1732.01	1706.91	3026.70	2436.20	3017.70	2429.21	77.25	3026.20	3017.50	20cc DD	1953.4
5	1748.53	1723.42	3054.60	2463.10	3046.20	2455.80	78.09	3054.60	3045.69	20cc DD	503.2
6	1799.02	1773.89	3141.20	2948.60	3132.70	2541.34	79.03	3141.30	3132.50	20cc DD	1876.0
7	1812.01	1786.88	3163.80	2567.10	3154.90	2559.81	79.65	3163.60	3154.94	20cc DD	2079.0
8	1876.03	1850.88	3273.80	2657.90	3265.40	2650.44	80.45	3273.90	3264.98	20cc DD	3282.0
9	1908.98	1883.80	3330.40	2704.90	3321.80	2697.22	81.20	3330.70	3321.40	20cc DD	3052.0
10	1933.49	1908.31	3372.70	2737.70	3363.60	2729.80	82.23	3372.70	3363.30	20cc DD	1104.0
11	1936.95	1911.76	3378.70	2742.50	3369.40	2734.76	83.23	3378.40	3369.32	20cc DD	866.0
12	1966.86	1941.66	3429.90	2774.00	3421.20	2766.21	83.84	3430.10	3420.70	20cc DD, Correlate	2050.0
13	1978.36	1953.15	3449.60	2790.40	3440.50	2783.38	84.60	3449.30	3440.30	20cc DD	929.0
14	1991.95	1966.74	3472.80	2811.70	3464.00	2803.78	84.95	3473.00	3463.60	20cc DD	2365.0
15	2038.51	2013.27	3552.50	2889.60	3543.60	2881.41	85.47	3552.80	3543.40	20cc DD	3561.6
16	2053.98	2028.74	3579.60	2911.30	3570.30	2903.33	85.88	3579.60	3570.10	20cc DD	2833.3
17	2119.00	2094.00	3691.30	3004.40	3681.75	2996.11	86.48	3691.10	3681.70	20cc DD, Mobility later	913.1
18	2141.50	2116.21	3729.60	3036.40	3720.70	3028.21	87.18	3729.90	3720.50	20cc DD	408.8
19	2152.00	2127.00	3747.70	3051.20	3738.77	3043.13	87.94	3748.00	3738.60	20cc DD Restart computer	887.3
20	2212.03	2186.70	3850.70	3136.20	3841.70	3127.70	89.17	3850.80	3841.70	20cc DD, set probe twice	107.6
21	2305.02	2279.64	4009.80	3144.90	4000.80	3136.71	90.35	4009.80	4000.40	20cc DD	528.6
22	2345.04	2319.64	4078.80	3218.50	4069.60	3210.00	91.30	4078.70	4069.20	20cc DD	71.5
23	2377.04	2351.62	4133.40	3283.50	4124.50	3274.97	92.00	4133.70	4123.90	20cc DD	818.9
24	2390.00	2364.57	4156.00	3322.20	4146.60	3313.70	92.60	4156.00	4146.30	20cc DD	95.3
25	2397.50	2372.06	4168.80	3333.30	4159.80	3324.80	93.33	4168.40	4159.40	20cc DD	197.4
26	2413.51	2388.07	4196.10	3354.90	4187.50	3346.46	94.03	4196.30	4187.00	20cc DD	632.7
27	2530.02	2504.49	4396.50	3621.60	4387.20	3612.64	95.00	4396.20	4386.80	20cc DD	257.7
28	2532.51	2506.99	4400.50	3624.80	4391.50	3615.80	95.55	4400.70	4391.20	20cc DD	52.7
29	2547.01	2521.48	4425.70	3644.90	4416.50	3635.50	96.15	4426.50	4416.40	20cc DD	74.5
30	2553.49	2527.95	4436.70	3653.20	4427.70	3644.50	96.78	4436.60	4427.60	20cc DD	1040.4
31	2554.99	2529.45	4439.50	3655.20	4430.50	3646.65	97.47	4438.80	4430.20	20cc DD	3.4
32	2557.03	2531									

161	3074.50	3049.5	n/a	n/a	5331.70	n/a	117.19	n/a	5331.90	10cc DD to tight to sample	
162	3074.70	3049.7	n/a	n/a	5332.30	n/a	117.89	n/a	5332.10	10cc DD tight	
163	3074.30	3049.3	n/a	n/a	5331.60	4774.00	118.35	n/a	5331.50	10cc DD prob supercharged attempt pump out, no go	
164	3077.00	3052.0	n/a	n/a	5336.26	n/a	119.00	n/a	5336.36	10cc DD tight	
165	3080.90	3055.9	n/a	n/a	5343.21	n/a	118.95	n/a	5343.14	5cc DD Tight	
166	3089.00	3064.0	n/a	n/a	5357.30	n/a	119.07	n/a	5357.40	5cc DD + 10cc DD retract 5cc DD tight then lost seal	
167	3093.80	3068.8	n/a	n/a	5365.56	5169.00	119.50	n/a	5365.80	5cc DD + 5cc DD super charged	
168	3095.00	3070.0	n/a	n/a	5368.10	4803.07	119.84	n/a	5368.44	5cc DD pump to OFA take two 450 MRSM samps	20.5
169	3103.50	3078.5	n/a	n/a	5383.40	5352.00	120.50	n/a	5383.40	5cc DD + 5cc DD supercharged leaking/supercharged	
170	3103.80	3078.8	n/a	n/a	5384.00	4808.70	120.29	n/a	5383.60	5cc DD Take 2 X 450cc MRSM chamber samples	292.9
171	3110.20	3085.2	n/a	n/a	5394.70	n/a	120.12	n/a	5394.88	5cc DD + 5cc DD super charged	
172	3110.50	3085.5	n/a	n/a	5395.75	n/a	121.00	n/a	5395.40	5cc DD tight	
173	3114.00	3089.0	n/a	n/a	5402.00	n/a	121.10	n/a	5402.02	5cc DD supercharged	
174	3115.10	3090.1	n/a	n/a	5404.00	n/a	122.00	n/a	5405.05	5cc DD leaking pump to try to get seal, no go	
175	3116.80	3091.8	n/a	n/a	5407.10	n/a	121.61	n/a	5407.06	5cc DD leaking + 10cc DD Leaking	
176	3121.00	3096.0	n/a	n/a	5414.44	n/a	121.50	n/a	5414.03	10cc DD leaking 10cc DD leaking	
177	3122.00	3097.0	n/a	n/a	5416.40	4860.79	121.80	n/a	5415.89	10cc DD pump to OFA take two 450cc MRSM samps	24.2
178	3125.50	3100.5	n/a	n/a	5422.10	n/a	122.50	n/a	5421.20	10cc DD tight	