

RESULTS of TOC and FID-CARBON ANALYSES

CUTTINGS from ON-SHORE WELLS: EASTERN GULF of ALASKA

Well	Sample No.	Total Organic Carbon (TOC) (%)	FID-Carbon (ppm of sediment)		FID-Carbon Yield (% of TOC)	S ₁ / (S ₁ + S ₂) %
			S ₁	S ₂		
Sullivan No. 1						
4210-4320	4	0.52	73	51	2.4	59
4900-4970	5	0.60	95	123	3.6	43
5560-5590	6	0.54	38	5	0.8	88
6030-6080	7	0.52	64	5	1.3	92
6550-6610	8	0.28	45	1	1.7	98
7030-7060	9	0.64	78	139	3.4	36
7870-7930	10	0.72	62	406	6.5	13
Sullivan No. 2						
3600-3670	3	1.02	48	228	2.7	17
4240-4300	4	0.64	38	86	1.9	30
4700-4760	5	0.77	29	73	1.3	29
6070-6100	6	0.14	10	0	0.7	100
6600-6650	7	0.59	38	59	1.6	40
7160-7200	8	0.62	44	65	1.8	40
7740-7790	9	0.58	35	55	1.6	39
8270-8370	10	0.29	18	0	0.6	100
9390-9430	11	0.35	52	0	1.4	100
9910-10210	12	0.51	31	0	0.6	100
10870-10960	13	0.54	411	3	7.7	99
11600-11680	14	0.37	37	1	1.0	97
Dangerous River-1						
1550-1620	2	0.07	12	0	1.7	100
1810-1890	3	0.30	8	0	0.3	100
2390-2500	4	0.68	3	15	0.3	15
2980-3070	5	0.59	7	21	0.4	24
3510-3610	6	0.50	25	8	0.7	76
3990-4120	7	0.68	47	27	1.1	64
4560-4660	8	0.49	29	0	0.6	100
5090-5210	9	0.52	43	0	0.8	100
5690-5820	10	0.75	67	85	2.0	44
6300-6420	11	0.64	95	0	1.4	100
6910-6990	12	0.67	63	69	1.9	47
7500-7590	13	0.51	53	0	1.0	100
7890-8060	14	0.42	26	0	0.6	100
8510-8610	15	0.31	19	0	0.6	100
White River Unit #2						
7820-7940	9	0.35	28	11	1.1	73
8540-8740	10	0.79	35	92	1.6	27
9320-9460	11	0.32	38	40	2.4	49
9700-9860	12	0.50	42	46	1.8	47
10280-10500	13	0.45	46	57	2.3	44
10900-11020	14	0.64	35	82	1.8	30
11440-11620	15	0.53	29	83	2.1	26
12100-12340	16	0.90	72	321	4.4	18
Yakutat No. 1						
6480-6640	5	0.65	77	5	1.3	94
7145-7285	6	2.79	89	493	2.1	15
7965-8155	7	1.33	56	273	2.4	17
8515-8575	8	0.86	22	75	1.1	23
9165-9295	9	1.12	73	104	1.6	42

TABLE 1 (Cont.)

Well	Sample No.	Total Organic Carbon (TOC) (%)	FID-Carbon (ppm of sediment)		FID-Carbon Yield (% of TOC)	$\frac{S_1}{S_1 + S_2}$ %
			S ₁	S ₂		
Yakutat No. 2						
1980-2210	2	0.90	147	302	4.9	33
2700-2760	3	0.46	34	22	1.2	61
3300-3390	4	0.51	103	148	4.9	41
3690-4140	5	0.40	28	1	0.7	96
4590-4680	6	0.37	24	11	0.9	69
5310-5430	7	0.48	88	62	3.1	59
5910-6030	8	0.45	84	71	3.4	54
6480-6600	9	0.44	104	43	3.3	71
7110-7230	10	0.59	169	90	4.4	65
7740-7860	11	0.36	46	9	1.5	84
8280-8370	12	0.58	66	56	2.1	54
8850-8970	13	0.45	107	29	3.0	79
9480-9600	14	0.52	235	166	7.7	59
10110-10230	15	0.59	125	114	4.0	52
10700-10790	16	0.80	605	332	11.7	65
11120-11210	17	0.83	766	326	13.2	70
11600-11720	18	0.63	102	130	3.7	44
Yakutat No. 3						
3150-3240	1	0.24	25	0	1.0	100
4320-4440	2	0.76	15	5	0.3	75
5110-5400	3	0.98	85	85	1.7	50
6060-6240	4	0.34	3	0	0.1	100
6780-6930	5	0.90	6	423	4.8	1
7590-7800	6	0.55	9	33	0.8	21
8270-8450	7	0.46	59	11	1.5	84
8900-9050	8	0.66	116	121	3.6	49
9530-9640	9	0.48	69	7	1.6	91
10090-10220	10	0.48	46	0	0.9	100
10550-10730	11	0.27	111	6	4.3	95
Malaspina 1-A						
9090-9270	8	0.27	47	0	1.7	100
9810-9990	9	0.27	29	0	1.1	100
10560-10740	10	0.50	23	4	0.5	85
11160-11370	11	0.44	21	40	1.4	34
11880-12060	12	0.26	51	0	1.9	100
12510-12750	13	0.19	13	0	0.7	100
13550-13560	14	0.51	34	1	0.7	97
13816-13823	15	0.73	21	69	1.2	23
Core Hole No. 1						
2390-2560	3	0.24	10	0	0.4	100
2960-3170	4	0.32	9	0	0.3	100
Core Hole No. 2						
4520-4730	1	1.05	63	85	1.4	43

NOTE: S₁ corresponds to the quantity of hydrocarbons present in the sediment. These are volatilized at a moderate temperature (lower than 300°C) during pyrolysis.

S₂ corresponds to hydrocarbons produced by cracking of the kerogen at temperatures up to 500°C.