

1.7 SUMMARY OF DST RESULTS, WELL 6506/11-1

TEST/ FLOW NO	PERF. INT. MRKB	DURATION HOURS	CHOKE	GAS RATE SM ³ /D	COND. RATE SM ³ /D	WATER RATE (BSW) M ³ /D	GOR SM ³ /SM ³	COND DENS. KG/M ³	GAS. GRAV. AIR=1	WELL HEAD PRESS. KPA	BOTTOM HOLE PRESS. KPA	WELL HEAD TEMP. C°	BOTTOM HOLE TEMP. CP
1	3727 - 3730 and 3741 - 3745	5	12.7mm	690	—*	—	—*	—*	0.645	3600	** 36000	9	122

* No measurable condensate.

** Bottom hole pressure unstable due to heavy slugging.

PRODUCT	UNIT	UNIT PRICE	36" ICOST	26" ICOST	17.5" ICOST	112.25- ICOST	8.5" ICOST	6" ICOST	(TEST COST)	(TOTAL COST)	(TOTAL COST)
	(SIZE)		{SECTION}\$	{SECTION}\$	{SECTION}\$	{SECTION}\$	{SECTION}\$	{SECTION}\$	(P & A)	{USED}	{COST}
BARITE	J.H.T.	86.00	70) 6020.00	1) .00	420) 36120.00	1859) 159874.00	471) 40506.00	.00	448) 38528.00	3268) 281048.00	
BENTONITE	J.M.T.	219.00	321) 7008.00	19) 4161.00	1) .00	16) 3504.00	2) 438.00	.00	25) 5475.00	94) 20586.00	
CAUSTIC SOA	[25 KG	11.50	39) 448.50	10) 115.00	4) 46.00	298) 3427.00	81) 931.50	.00	6) 69.00	438) 5037.00	
BICARBONATE	[50 KG	17.92	1) .00	1) .00	1) .00	17) 304.64	19) 340.48	.00	47) 842.24	83) 1487.36	
SODA ASH	j 30 KG.	9.60	1S) 172.80	4) 38.40	1) .00	21) 201.60	5) 48.00	.00	10) 96.00	58) 556.80	
GYPSUM	[40 KG.	8.50	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
BENTONITE	[50 KG.	14.08	1) .00	1) .00	1) .00	1) .00	1) .00	.00	27) 380.16	27) 380.16	
LIME	"[40 KG.	10.24	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
XC-POLYMER	[50 LBS.]	216.00	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
ORISPAC REG.	[50 LBS.]	80.50	3) 241.50	1) .00	94) 7567.00	5) 402.50	1) .00	.00	12) 966.00	114) 9177.00	
DRISPAC SLO.	[50 LBS.]	60.50	1) .00	1) .00	319) 25679.50	470) 37835.00	1) .00	.00	1) .00	789) 63514.50	
GYPSUM	[25 KG.	5.31	1) .00	1) .00	639) 3393.09	306) 1624.86	1) .00	.00	1) .00	945) 5017.95	
LIME	j 25 KG.	6.40	1) .00	1) .00	14) 89.60	64) 409.60	1) .00	.00	1) .00	78) 499.20	
SPERCELL C	[25 KG	12.00	1) .00	1) .00	1) .00	817) 9804.00	249) 2988.00	.00	36) 432.00	13224.00	
DESCO	[25 LBS.]	35.84	1) .00	1) .00	46) 1648.64	324) 11612.16	234) 8386.56	.00	30) 1075.20	634) 22722.56	
CMC HIVIS	[25 KG.	30.00	51) 1530.00	75) 2250.00	1) .00	1) .00	1) .00	.00	1) .00	126) 3780.00	
ANCOLIG C	[25 KG.	20.48	1) .00	1) .00	1) .00	64) 1310.72	200) 4096.00	.00	1) .00	264) 5406.72	
MICA C	[25 KG.	10.00	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
MICA F	[25 KG.	10.00	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
NUT PLUG C	[25 KG.	14.08	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
NUT PLUG F	[125 KG.	14.08	1) .00	1) .00	1) .00	1) .00	1) .00	.00	1) .00	1) .00	
ANCO RESIN	[25 KG	89.60	1) .00	1) .00	1) .00	1) .00	138) 12364.80	.00	1) .00	138) 12364.80	
IMCOSPOT	[50 LBS	90.00	1) .00	1) .00	1) .00	1) .00	194) 17460.00	.00	1) .00	194) 17460.00	
ZINCCARBONATE	[25 KG.	57.60	1) .00	1) .00	4Q) 2764.80	30) 1728.00	1) .00	.00	1) .00	78) 4492.80	
DEFOAMER	[25 LIT.	75.52	1) .00	1) .00	1) .00	13) 981.76	1) .00	.00	1) .00	13) 981.76	
ANCOCIDE	[25 KG.	69.12	1) .00	1) .00	1Z) 829.44	5) 345.60	1) .00	.00	1) .00	17) 1175.04	
PIPELAX	[200 L	160.00	1) .00	1) .00	1) .00	1) .00	8) 1280.00	.00	1) .00	8) 1280.00	
TOTALS			15420.00	6564.40	78138.07	233365.44	87559.34	.00	47663.60	468911.65	
HOLE DRILLED (METRES)			97	218	1485	2036	541			4377	
COST PR. METRE			156.98	30.11	52.62	114.62	161.85			107.13	
TOTAL DAYS			4	3	11	36	13		23	90	
COST PR. DAY			3855.20	2188.13	7103.46	6482.37	6735.33		2081.03	5210.13	
HUD MIXED (CU.H)			770	315	983	1339	248		452	4612	
COST PR. CU.H			20.03	20.84	79.09	126.90	353.06		105.89	101.67	

STATOIL WELL HO. 6506/11-1

DRILLING MUO PROPERTIES RECORD

AREA: KALTANBAKKEN

HUD SYSTEM: SPUO HUD (GEL AND OMC/SW)

SHEET 1 OF 3

RIG: DYVI DELTA

DAY Ho.	DATE 1987	DEPTH metre	M.W. sg	F.V. S/qt	600	300	A.V cps	PV cps	Y.P	GEL 0	GEL 10	pH	API Flit.	CAKE 32nds	WHP ml.	Chl.ppm MOOD	Calc. PPH.	Pf	<ol.	%0111 <and	EX. GYP pp*	MBT ppb
1	30/12			75								11.4										
2	31/12	456	1.7	100								11.0										
3	1/1	387	1.2	100								11.0										
4	2/1	372	1.1	100								11.0										
5	3/1	416	1.1	100								11.0										
6	4/1	518	1.1	100								11.0										
7	5/1	590	1.1	100								11.0										
8	6/1	586	1.1	50	34	21	17.0	13	8	1	I	9.9	7.4		20000	5600	.10	3.0			1.50	
9	7/1	586	1.1	50	34	21	17.0	13	8	1	1	9.8	7.4		20000	5600	.10	3.0			1.60	
10	8/1	177	1.3	50	33	21	16.5	12	9	1	1	9.0	5.8		20000	4800	.05	10.0			3.10	2.5
11	9/1	1124	1.3	55	41	26	20.5	15	11	1	4	8.3	4.2		21000	4840		12.0	.5		2.90	e
12	10/1	1124	1.3	52	37	23	18.5	14	9	1	3	8.3	3.8		21000	4720		12.0	.5		2.40	8
13	11/1	1343	1.3	53	38	24	19.0	14	10	1	8	8.3	3.8		21000	4640		12.0	.5		1.80	9.5
H 12/1	1503	1.4	50	40	25	20.0	15	10	2	14	8.2	4.5		21500	4720		17.0	.5		1.80	10.5	
15	13/1	2029	1.4	51	47	31	23.5	16	15	2	43	8.2	5.8		22000	4520		17.5	.75		1.40	16
16	14/1	2083	1.5	50	46	29	23.0	17	12	4	44	8.3	5.9		22000	4480	.07	20.0	.75		1.50	19
17	15/1	2088	1.5	52	50	32	25.0	18	14	5	48	8.2	6.0		22000	4500		20.0	.75		1.60	19
18	16/1	2038	1.5	51	42	27	21.0	15	12	5	49	8.2	6.0		22000	4500		20.0	.75		1.50	19
19	17/1	2091	1.7	59	55	39	27.5	16	23	7	60	8.4	10.0		23000	4000	.30	29.0	.75		1.50	20
20	18/1	2440	1.8	54	62	50	31.0	12	38	45	50	8.2	14.0		21000	3200	.10	26.0	1		1.60	21
21	19/1	2691	1.8	52	60	46	30.0	14	32	35	35	8.1	17.0		21000	3200	.05	25.0	1		1.50	21
22	20/1	2806	1.8	70	71	53	35.5	18	35	27	45	8.2	14.0		21000	3440	.05	27.0	.75		1.20	21
23	21/1	2815	1.8	70	68	47	34.0	21	26	37	84	8.4	9.0		21000	3680	.05	27.0	.5		1.20	19
24	22/1	2858	1.8	68	72	50	36.0	22	26	25	84	8.5	8.5		21000	3920	.10	26.0	.75		1.30	17
25	23/1	2951	1.8	76	71	49	35.5	22	27	25	88	8.8	8.8		21000	3720	.05	26.0	.75		1.30	15
26	24/1	3067	1.8	67	69	47	34.5	22	25	25	90	8.2	7.5		21500	3720	.05	26.0	.5		1.30	14.5
27	25/1	3166	1.8	65	70	46	35.0	24	22	16	82	6.3	7.6		21500	3640	.05	26.0	.5		1.30	14
26	26/1	3250	1.8	63	74	50	37.0	24	26	17	88	8.2	7.4		21000	3560	.05	26.0	.5		1.20	13.5
29	27/1	3335	1.8	64	83	55	41.5	28	27	20	82	8.0	6.4		21000	3640	.05	27.0	.5		1.10	13.5
30	28/1	3414	1.8	65	82	55	41.0	27	28	20	80	8.4	6.0		21000	3560		27.0	.25		1.20	13
31	29/1	3421	1.8	70	77	52	38.5	25	27	21	72	8.5	5.5		21000	3650		27.0	.25		1.70	13
32	30/1	3421	1.8	75	75	51	37.5	24	27	17	68	8.2	5.3		21000	3480		27.0	.5		1.20	13
33	31/1	3469	1.8	64	75	51	37.5	24	27	17	74	8.5	6.0		21500	3420	.05	27.0	.5		.90	13

STATOIL HELL HO. 6506/11-1

DRILLING HUD PROPERTIES RECORD

AREA: HAITAHBANKEN

HUD SYSTEM: SPUD HUD (GEL AND CHC/SH)

SHEET 2 OF 3

RIG: OYVI DELTA

DAY No.	DATE	DEPTH	M.W. sg	F.V. s/qt	600	300	A.V. cps	PV cps	Y.P. cps	GEL 0	GEL 10	pH	API Filt.	CAKE 32ndS	HHP ml	Chl.ppm MOOD	Calc. PPM.	Pf	<ol.	<Ill %Sand	EX.GYP ppb	HBT ppb
34	I/ 2	3556	1.8	72	80	54	40.0	26	28	19	69	8.3	5.6			21500	3040		26.5	.5	.50	H.5
35	11 2	3632	1.8	63	75	49	37.5	26	23	17	58	8.5	5.7			21000	2900	.05	27.0	.25	.30	12.5
36	3/ 2	3709	1.8	67	81	52	40.5	29	23	13	57	8.7	5.6			21000	2260	.05	27.0	.5	.40	12.5
37	4/ 2	3755	1.8	62	86	54	43.0	32	22	11	47	8.5	5.0			21500	1300		27.0	.5		13.5
38	5/ 2	3796	1.8	54	68	42	34.0	26	16	7	29	9.3	5.3			21000	720	.05	27.0	.25		12.5
39	6/2	3832	1.8	53	57	35	26.5	22	13	4	30	9.6	4.8			21000	500	.20	27.0	.25		13.5
40	7/ Z	3832	1.8	66	68	42	34.0	26	16	3	38	8.5	5.8			21000	920	.05	27.0	.25		14
41	a/ 2	3834	1.8	53	70	44	35.0	26	18	5	37	8.8	5.7			21000	B50	.10	27.0	.25		13.5
42	9/ 2	3837	1.8	62	69	43	34.5	26	17	7	38	8.6	5.1			21000	640	.05	30.0	.75		14
43	10/ Z	3887	1.8	53	62	39	31.0	23	16	5	38	9.7	5.7			21500	440	.20	29.0	.5		15
44	11/ Z	3955	1.6	56	74	45	37.0	29	16	5	33	9.4	5.4			21000	400	.20	30.0	.5		14
45	12/ Z	4025	1.3	53	70	43	35.0	27	16	5	33	9.2	5.6			21000	420	.20	29.0	.5		14
46	13/ 2	4080	1.8	53	74	45	37.0	29	16	6	30	9.6	5.1			21000	300	.25	29.0	.5		M
47	14/ 2	4080	1.8	54	66	40	33.0	26	14	5	26	9.4	5.2			21500	260	.25	29.0	.5		13.5
48	IS/ 2	4080	1.8	56	66	41	33.0	25	16	4	34	8.9	5.2			21500	Z80	.10	29.0	.5		13.5
49	I6/ 2	4083	1.8	60	72	45	36.0	27	18	5	32	9.3	5.6			21000	360	.25	29.0	.5		14
50	17/ 2	4126	1.8	49	65	40	32.5	25	15	5	27	9.5	6.6			22000	220	.25	29.0	.5		14
51	IB/ Z	4138	1.8	48	64	38	32.0	26	12	4	29	9.2	7.2			21500	200	.20	29.0	.5		14.5
52	19/ Z	4138	1.8	56	65	39	32.5	26	13	6	33	9.1	7.3			22000	280	.20	29.0	.5		13.5
53	20/ 2	4138	1.8	56	64	38	32.0	26	12	6	32	8.9	7.3			22000	280	.15	29.0	.5		14
54	21/ 2	4138	1.8	78	63	38	31.5	25	13	6	33	8.7	7.2			22000	280	.10	29.0	.5		14
55	Hi 2	4162	1.8	54	54	32	27.0	22	10	4	46	11.0	8.6			21000	290	.55	29.0	.5		17
56	23/ Z	4167	1.9	55	56	33	28.0	23	10	5	53	11.0	8.6			21000	400	.50	31.0	.75		16.5
57	24/ 2	4231	1.9	55	54	32	27.0	22	10	4	31	10.3	8.2			21000	600	.35	31.0	.75		16
58	25/ 2	4274	1.9	60	67	40	33.5	27	13	5	38	9.7	7.2	21.0		20000	240	.35	31.5	.5		17.5
59	26/ Z	4417	1.9	69	72	45	36.0	27	18	6	37	9.8	4.8	16.0		18000	140	.40	32.0	.75		18
60	27/ Z	4478	1.9	58	59	34	29.5	25	9	2	30	9.8	4.3	17.0		17500	200	.70	32.0	.75		16
01	28/ 2	4539	1.9	57	51	30	25.5	21	9	Z	21	9.5	4.1	16.5		17500	200	.60	32.0	.5		16
62	29/ 2	4679	1.9	58	61	37	30.5	24	13	Z	30	9.8	3.7	16.5		16000	220	.60	32.0	.75		16
63	I/ 3	4679	1.9	52	51	31	25.5	20	11	2	32	10.0	3.8	16.0		19000	240	.60	31.5	.75		15
64	2/ 3	4679	1.9	52	52	31	26.0	21	10	2	30	10.3	3.6	15.0		19000	220	.70	31.5	.75		15
65	3/ 3	4679	1.9	56	51	30	25.5	21	9	Z	26	9.9	3.4	14.5		19000	240	.50	31.5	.25		15
66	4/ 3	4679	1.9	53	51	30	25.5	21	9	2	24	9.8	3.2	10.0		19000	280	.40	31.5	.5		14

STATOIL HELL HO. 6506/11-1

DRILLING KUD PROPERTIES RECORD

AREA: HALTANBANKEN

MUD SYSTEM: SPUD HUD (GEL AND CHC/SW)

SHEET 3 OF 3

RIG: CYVI DELTA

DAY No.	DATE 1987	DEPTH metre	H.W. sg	F.V. S/qt	600	300	A.V. eps	PV eps	Y.P.	GEL 0	GEL 10	pH	API Filt.	CAKE 32nds	KTHP al.	Chl.ppn MOOO	Calc. PPM.	Pf	«ol.	VOOn	«and	EX.fiyP ppb	HBT ppb
67	5/	3	4679	1.9	54	49	29 24.5	20	9	2	21	9.7	3.2		10.0	19000	260	.40	31.5		.5		14
68	67	3	4124	1.9	54	56	33 28.0	23	10	2	30	11.2	4.6			18500	480	1.00	32.0		.25		14
69	77	3	3951	1.9	55	53	30 26.5	23	7	2	27	11.5	5.8			18000	360	1.50	31.5		.5		14
70	B/	3	3900	1.8	47	38	22 19.0	16	6	2	19	11.2	6.6			18000	380	1.30	27.5		.5		13
71	97	3	3777	1.8	47	35	20 17.5	15	5	2	19	11.2	6.8			18000	400	1.40	27.5		.5		13
n io/	3	3777	1.8	52	34	19 17.0	15	4	4	2	15	11.5	6.4			19000	440	1.70	28.0		.5		12
73	11/	3	3740	1.8	56	31	17 15.5	14	3	2	14	11.5	7.6			19000	400	1.70	28.0		.75		12
74	MI	3	3740	1.6	56	61	35 30.5	26	9	3	32	11.5	7.6			16500	360	1.40	32.0		1		10
75	13/	3	3740	1.9	46	53	30 26.5	23	7	1	25	n.0	7.6			18000	400	1.30	31.0		1		9
76	14/	3	3740	1.9	80	72	42 36.0	30	12	7	56	10.5	8.6			10000	480	.50	31.0		1		12.5
77	15/	3	3740	1.9	95	73	42 36.5	31	11	15	62	10.9	11.5			12000	420	.60	31.0		1		16
78	16/	3	3740	1.9	70	56	31 28.0	25	6	2	40	11.0	10.5			14000	500	.60	33.5		1		12.5
79	17/	3	3740	2.0	62	64	37 32.0	27	10	3	37	10.0	11.0			14000	500	.60	33.5		.75		14
ao u/	3	3740	2.0	66	69	40 34.5	29	n	3	3	39	10.0	11.0			14000	500	.60	33.5		.75		14
B1	19/	3	3740	2.0	67	60	34 30.0	26	a	3	38	10.0	11.3			13000	560	.50	33.5		.75		14
82	20/	3	3699	1.9	69	53	31 26.5	22	9	4	52	10.5	U. 6			13000	500	.70	30.0		1		15
83	ti l	3	3699	1.9	70	53	31 26.5	n	9	4	52	10.5	11.5			13000	500	.60	30.0		1		15
84	121	3	3699	1.9	66	54	31 27.0	23	a	5	39	10.5	11.5			13000	500	.80	30.0		1		15
85	23/	3	3121	1.3	55	48	26 24.0	20	8	3	37	10.5	12.0			13000	480	.60	27.0		.75		15
86	24/	3	3121	1.8	55	48	28 24.0	20	e	3	37	10.5	12.2			13000	460	.60	27.0		.75		15
87	257	3	685	1.5	61	46	28 23.0	18	10	4	40	11.0	13.0			14000	500	.70	17.0		.5		14.5
88	267	3	685	1.5	47	46	27 23.0	19	8	4	36	11.0	13.0			14000	480	.60	17.0		.5		14.5
89	n{	3	495	1.5	110	59	39 29.5	20	19	20	69	12.0	13.2			14000	780	.80	17.0		.5		14.5

KJELLER ADDRESS N-2007 Kjeller, Norway TELEPHONE +47 6 812560 - 813560 TELEX 74 573 energ n TELEFAX +47 2 815553		HALDEN N-1751 Halden, Norway +47 31 83100 76 335 energ n	AVAILABILITY Private Confidential
REPORT TYPE	REPORT NO. IFE/KR/F-88/064	DATE 1986-06-08	
	REPORT TITLE REPORT ON STABLE ISOTOPES (6^{13}C , 5D , 6^{18}O) ON A NATURAL GAS FROM WELL 6506/11-1	DATE OF LAST REV.	
		REV. NO.	
	CLIENT Statoil	NUMBER OF PAGES 5	
CLIENT REF. T 6269 no. 112	NUMBER OF ISSUES 16		
SUMMARY The gas components C -C have been separated from a natural gas from well 6506/11-1, and the 6^{13}C values of these components have been measured. The isotopic composition of hydrogen from CH_4 has also been measured.			DISTRIBUTION Statoil (10) Andresen, B. Rolf sen, S. Råheim, A. Throndsen, T.
KE			
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APPROVED BY Henning Qvale		1988-06-08	Henning Qvale

1. INTRODUCTION

One gas sample from well 6506/11-1, DST 1; 3727-30 + 3741-45m RKB was received and analysed May 1988.

On the sample C_1-C_4 and CO_2 are quantified, and the $\delta^{13}C$ value is measured on methane, ethane, propane and the butanes. The δD value is also measured on methane.

The gas sample did not contain enough CO_2 ($< 0.01\%$) to do isotopic measurements.

2. ANALYTICAL PROCEDURE

The natural gas has been quantified and separated into the different gas components by a Carlo-Erba 4200 instrument. This gas chromatograph is equipped with a special injection loop in order to concentrate the samples, in the case of low concentration of the gas components. The hydrocarbon gas components were oxidized in separate CuO-ovens in order to prevent cross contamination. The combustion products CO_2 and H_2O were frozen into collection vessels and separated.

The water was reduced with zinc metal in a sealed tube to prepare hydrogen for isotopic analysis. The isotopic measurements were performed on a Finnigan Mat 251 and a Finnigan Mat delta mass spectrometer. Our $\delta^{13}C$ value on NBS 22 is $-29.77 \pm .06$ o/oo PDB.

3. RESULTS

The volume composition of the sample is given in Table 1. The results have been normalized to 100%. The stable isotope results are given in Table 2.

Our uncertainty on the $\delta^{13}C$ value is estimated to be ± 0.3 o/oo and includes all the different analysis step. The uncertainty on the δD value is likewise estimated to be ± 5 o/oo.

Table 1 Volume composition of a gas sample from well 6506/11-1

Sample	IFE no.	C ₁ %	C ₂ %	C ₃ %	i-C ₄ %	n-C ₄ %	CO ₂ %	ΣC ₁₋₄	$\frac{\Sigma C_{2-4}}{\Sigma C_{1-4}}$	$\frac{i-C_4}{n-C_4}$
DST 1 3727-30 3741-45 m RKB	7434	91.4	6.4	1.7	0.22	0.28	<0.01	100.0	0.09	0.79

Table 2 Isotopic composition of a gas sample from well 6506/11-1

Sample	IFE no.	C _{1,3} δ ¹³ C _{PDB}	C ₁ δ ¹³ C _{SMOW}	C ₂ δ ¹³ C _{PDB}	C ₃ δ ¹³ C _{PDB}	i-C ₄ δ ¹³ C _{PDB}	n-C ₄ δ ¹³ C _{PDB}
DST 1 3727-30 3741-45 m RKB	7434	-42.7	-17.7	-30.0	-27.7	-27.1	-21.1

4. INTERPRETATION

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GEOCHEMICAL DATA REPORT FOR WELL 6506/11-1

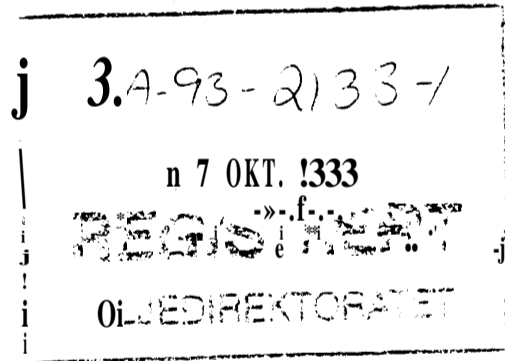
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Abstract

94 samples from the cored interval in well 6506/11-1 have been analysed by latroscan (TCL-FID).
2 samples were analysed by GC-FID and GC/MS.

NOT INCLUDED IN WELL TRADE.



Key Words

6506/11-1, geochemistry, latroscan, GC-FID, GC/MS

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SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Wall 6506/11-1

Pag» 1

Type	St. Depth	En. Depth	Weight (g)	EOM »g/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (»g/g)	NSO (ng/g)	Asph («g/g)	Polars <»g/g)	TOC (%)	M/I
CCP	4140.50	4140.50		0.47		0.36	0.09		0.01	0.01		I
CCP	4141.50	4141.50		0.28		0.20	0.06		0.01	0.01		I
CCP	4142.50	4142.50		3.09		3.04	0.04		0.01	0.01		I
CCP	4143.50	4143.50		0.60		0.52	0.05		0.01	0.03		I
CCP	4144.50	4144.50		0.59		0.53	0.05		0.01	0.01		I
CCP	4145.50	4145.50		0.71		0.60	0.09		0.02	0.01		I
CCP	4146.50	4146.50		0.59		0.48	0.08		0.01	0.01		I
CCP	4147.50	4147.50		1.24		1.15	0.07		0.01	0.01		I
CCP	4148.50	4148.50		0.73		0.61	0.09		0.02	0.01		I
CCP	4149.50	4149.50		0.81		0.70	0.09		0.01	0.01		I
CCP	4150.50	4150.50		1.05		0.86	0.17		0.01	0.01		I
CCP	4151.50	4151.50		0.85		0.73	0.10		0.01	0.01		I
CCP	4152.70	4152.70		0.90		0.70	0.18		0.01	0.01		I
CCP	4153.50	4153.50		0.60		0.52	0.07		0.00	0.01		I
CCP	4154.50	4154.50		0.78		0.63	0.13		0.01	0.01		I

207 Analyses selected . . . , from the following search criteria:

Nat: NOR, Well: 6506/11%, Depth
between: 0.000 and 99999.990 • ,
MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6506/11-1

Page 2

Type	St. Depth	En. Depth	Weight (g)	EOM mg/g Rock	EOM »g/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (*g/g)	Polars (mg/g)	TOC (%)	M/I
CCP	4155.50	4155.50		0.78		0.67	0.09		0.01	0.01		I
CCP	4156.50	4156.50		0.73		0.58	0.13		0.00	0.01		I
CCP	4157.50	4157.50		0.73		0.62	0.10		0.01	0.01		I
CCP	4158.50	4158.50		0.70		0.59	0.09		0.01	0.01		I
CCP	4159.50	4159.50		0.67		0.52	0.13		0.00	0.01		I
CCP	4160.50	4160.50		0.51		0.45	0.04		0.01	0.01		I
CCP	4161.50	4161.50		0.64		0.51	0.11		0.00	0.01		I
CCP	4162.50	4162.50		0.52		0.44	0.07		0.01	0.00		I
CCP	4163.50	4163.50		0.52		0.43	0.07		0.02	0.01		I
CCP	4164.50	4164.50		0.43		0.37	0.05		0.01	0.01		I
CCP	4165.50	4165.50		0.43		0.34	0.06		0.01	0.01		I
CCP	4166.50	4166.50		0.47		0.37	0.08		0.00	0.01		I
CCP	4167.50	4167.50		0.45		0.32	0.08		0.03	0.02		I
CCP	4168.50	4168.50		0.75		0.60	0.12		0.01	0.02		I
CCP	4169.50	4169.50		0.57		0.47	0.09		0.01	0.01		I

207 Analyses selected . . . , from the following search criteria:

Hat: NOR, Well: 6506/11%, Depth
between: 0.000 and 99999.990 »,
MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6506/11-1

Page 3

Type	St. Depth	En. Depth	Weight (g)	EOM »g/g Rock	EON »g/g TOC	Sat (mg/g)	Aro (»g/g)	NSO (»g/g)	Asph (»g/g)	Polars (»g/g)	TOC (%)	M/I
CCP	4170.50	4170.50		0.66		0.53	0.12		0.00	0.01		I
CCP	4171.50	4171.50		0.37		0.27	0.08		0.01	0.01		I
CCP	4172.50	4172.50		0.64		0.57	0.05		0.01	0.01		I
CCP	4173.50	4173.50		0.70		0.57	0.00		0.01	0.01		I
CCP	4174.50	4174.50		0.54		0.43	0.09		0.01	0.01		I
CCP	4175.50	4175.50		0.45		0.36	0.07		0.01	0.01		I
CCP	4176.5.0	4176.50		0.65		0.52	0.10		0.01	0.01		I
CCP	4177.50	4177.50		0.67		0.54	0.10		0.01	0.01		I
CCP	4178.80	4178.80		0.53		0.42	0.08		0.03	0.01		I
CCP	4179.50	4179.50		1.27		0.57	0.09		0.60	0.01		I
CCP	4180.50	4180.50		0.70		0.57	0.07		0.06	66.94		I
CCP	4181.50	4181.50		0.58		0.50	0.07		0.01	0.00		I
CCP	4182.50	4182.50		0.50		0.40	0.09		0.01	0.01		I
CCP	4183.50	4183.50		0.60		0.50	0.09		0.00	0.01		I
CCP	4184.50	4184.50		0.39		0.38	0.00		0.00	0.01		I

207 Analyses selected . . . , from the following search criteria:

Nat: NOR, Well: 6506/11%, Depth

between: 0.000 and 99999.990 m,

HPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/q Rock

Data for Well 6506/11-1

Page 4

Typ<	St.Depth	En. Depth	Weight (g)	EON ng/g Rock	EOM »g/g TOC	Sat (»g/g)	Aro (»g/g)	NSO (»g/g)	Aaph (mg/g)	Polara <»g/g)	TOC (%)	M/I
CCP	4185.50	4185.50		0.63		0.54	0.08		0.00	0.01		I
CCP	4186.50	4186.50		0.49		0.40	0.06		0.01	0.01		I
CCP	4187.50	4187.50		0.42		0.35	0.07		0.00	0.01		I
CCP	4188.50	4188.50		0.35		0.28	0.06		0.00	0.01		I
CCP	4189.50	4189.50		0.28		0.21	0.06		0.00	0.00		I
CCP	4190.50	4190.50		0.25		0.24	0.00		0.00	0.01		I
CCP	4191.50	4191.50		0.19		0.18	0.00		0.00	0.01		I
CCP	4192.45	4192.45		0.64		0.28	0.32		0.03	0.02		I
CCP	4193.60	4193.60		0.30		0.21	0.07		0.00	0.01		I
CCP	4194.50	4194.50		0.60		0.32	0.26		0.01	0.01		I
CCP	4263.50	4263.50		1.08		0.80	0.25		0.02	0.02		I
CCP	4264.50	4264.50		0.19		0.07	0.08		0.03	0.01		I
CCP	4265.50	4265.50		0.30		0.12	0.14		0.04	0.01		I
CCP	4266.50	4266.50		0.40		0.22	0.05		0.12	0.01		I
CCP	4267.50	4267.50		0.66		0.23	0.37		0.01	0.05		I

207 Analyses selected . . . , from the following search criteria:

Nat: NOR, Well: 6506/11%, Depth

between: 0.000 and 99999.990 »,

MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 6506/11-1

Page 5

Type	St. Depth	En. Depth	Weight (g)	EOM »g/g Rock	EON mg/g TOC	Sat (mg/g)	Aro (»g/g)	NSO (»g/g)	Asph (»g/g)	Polars (»g/g)	TOC (%)	M/I
CCP	4268.50	4268.50		0.11		0.08	0.00		0.03	0.01		I
CCP	4269.50	4269.50		0.23		0.05	0.00		0.17	0.01		I
CCP	4270.50	4270.50		0.14		0.07	0.04		0.02	0.01		I
CCP	4271.50	4271.50		0.28		0.16	0.09		0.02	0.01		I
CCP	4272.50	4272.50		0.40		0.28	0.08		0.03	0.01		I
CCP	4273.50	4273.50		0.70		0.54	0.13		0.01	0.01		I
CCP	4477.50	4477.50		0.29		0.18	0.06		0.03	0.02		I
CCP	4478.50	4478.50		0.19		0.12	0.04		0.01	0.01		I
CCP	4479.40	4479.50		0.29		0.18	0.09	0.01	0.01			I
CCP	4479.50	4479.50		0.02		0.18	0.09		0.01	0.26		I
CCP	4480.50	4480.50		0.17		0.12	0.03		0.01	0.01		I
CCP	4481.50	4481.50		0.19		0.17	0.00		0.01	0.01		I
CCP	4482.50	4482.50		0.09		0.07	0.00		0.01	0.01		I
CCP	4484.50	4484.50		0.03			0.00		0.00	0.00		I
CCP	4485.50	4485.50		0.02		0.00	0.00		0.01	0.00		I

207 Analyses selected . . . , from the following search criteria:

Nat: NOR, Well: 6506/11%, Depth

between: 0.000 and 99999.990 » ,

MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in ag/g Rock

Data for Well 6506/11-1

Page 6

Type	St. Depth	En. Depth	Weight (g)	EON ag/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (ag/g)	NSO (ag/g)	Asph (ag/g)	Polara (ag/g)	TOC (%)	M/I
CCP	4486.50	4486.50		0.13		0.10	0.00		0.03	0.01		I
CCP	4487.50	4487.50		0.07		0.05	0.00		0.01	0.01		I
CCP	4488.50	4488.50		0.05		0.02	0.00		0.02	0.01		I
CCP	4489.50	4489.50		0.11		0.04	0.05		0.02	0.01		I
CCP	4490.50	4490.50		0.10		0.08	0.00		0.01	0.01		I
CCP	4491.50	4491.50		0.06		0.05	0.00		0.00	0.01		I
CCP	4492.50	4492.50		0.05		0.04	0.00		0.00	0.01		I
CCP	4493.50	4493.50		0.28		0.14	0.13		0.01	0.01		I
CCP	4494.50	4494.50		0.22		0.12	0.09		0.00	0.01		I
CCP	4495.50	4495.50		0.01		0.07			0.01	0.14		I
CCP	4496.50	4496.50		0.25		0.17	0.06		0.00	0.01		I
CCP	4497.50	4497.50		0.16		0.15	0.00		0.00	0.01		I
CCP	4498.50	4498.50		0.04		0.03	0.00		0.01	0.00		I
CCP	4499.50	4499.50		0.08		0.07	0.00		0.00	0.01		I
CCP	4500.50	4500.50		0.05		0.04	0.00		0.00	0.00		I

207 Analyses selected . . . , froa the following search criteria:

Nat: NOR, Well: 6506/11%, Depth
between: 0.000 and 99999.990 a,
MPLC: I

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in »g/g Rock

Data for Well 6506/11-1

Page 7

Type	St.Depth	En.Depth	Weight (g)	EON mg/gRock	EOM »g/g TOC	Sat (mg/g)	Aro («g/g)	NSO (»g/g)	Asph <»g/g)	Polars (»g/g)	TOC (%)	M/I
CCP	4501.50	4501.50		0.10		0.08	0.00		0.01	0.01		I
CCP	4502.50	4502.50		0.04		0.02	0.00		0.01	0.00		I
CCP	4503.50	4503.50		0.04		0.03	0.00		0.01	0.00		I
CCP	4504.50	4504.50		0.05		0.04	0.00		0.01	0.01		I
Averages this Well:				0.46	0.00	0.37	0.07	0.01	0.02	0.73	0.00	

207 Analyses selected ..., from the following search criteria:

Nat: NOR, Well: 6506/11%, Depth
between: 0.000 and 99999.990 •,
MPLC: I

0 well	1	2 nat	3 formation	4	5 upper depth	6 lower depth	7 sample type	8 Ts/Tm	
1	6506/11-1	6506/11-1	nor		saga_sept92	4142.50	4142.5	ccp	1.479452
2	6506/11-1	6506/11-1	nor		saga_sept92	4147.50	4147.5	ccp	2.183673

0 well	9 Z/C	10 Z/Z+E	11 X/E	12 X/X+D	13 E/E+F	14 22S	15 a/a+j	16 20S	
1	6506/11-1	0.151163	0.094203	0.232000	0.716049	0.880282	57.575758	0.761589	0.547945
2	6506/11-1	0.176056	0.104603	0.560748	0.863309	0.880658	59.574468	0.896797	0.605263

0 well	17 bb 217	18 %C27 abbS	19 %C28 abbS	20 %C29 abbS	
1	6506/11-1	0.562874	31.501832	31.135531	37.362637
2	6506/11-1	0.595745	31.221719	32.126697	36.651584

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Geological laboratories

Grading Confidential

Title GEOCHEMICAL ANALYSES PERFORMED ON SIDEWALL CORES, CORE CHIPS AND A GRAVEL SAMPLE FROM WELL 6506/11-1		
Requested by Eirik Vik, Statoil Let-K	Project Geochemistry well 6506/11-1	
Date 28.06.88	No. of pages 15 Tables: 5 Figures: 8	No. of enclosures Appendices: 2

Keywords Geochemical analyses, hydrocarbon characterisation, biomarkers, carbon isotopes, gas chromatography, gas chromatography/mass spectrometry,

Prepared by Trygve Meyer, GEOLAB Edle Berge, GEOLAB Ingun Skjevraak, PROLAB IKU IFE
Text operator Trygve Meyer

Approved by

05:07-88

Hilary Irwin

Hilary Irwin
Statoil Geological laboratories

5/7-88

Snorre Olaussen

Snorre Olaussen, Dept. Manager
Statoil Geological laboratories

Table 1: List of samples used in this study of well 6506/11-1

Sample nos.	Depth in m*	Sample type	Lithological description	Remarks
S-3003	3727-3745	gravel	A : 80% siltstone, light brown, firm, mod. calcareous B : 20% claystone, grey, shaly, firm, mod. calcareous Tr.: Rockminerals(?)	
S-2998	3168.0	swc	Sandstone, light grey, firm, very fine, micro-micaceous	
S-2999	3188.0	ii	As S-2998	
S-3000	3217.0	ii	Claystone laminated with sandstone, light grey to grey, soft to firm	
S-3001	3250.0	ii	As S-3000	
S-3002	3710.5	ii	Sandstone, light grey, firm, very fine to fine, micro-micaceous, occ. fine carbonaceous fragments	
S-2980	4141.2	core	Sandstone, light grey brown, fine, hard, slight carbonaceous, micro-micaceous, cemented	Weak HC odour
S-2981	4145.74	ii	Sandstone, light grey brown, fine to medium fine, hard, micro-micaceous, cemented	Weak HC odour
S-2982	4150.98	ii	Sandstone, light grey to grey, fine to medium fine, hard, micro-micaceous, cemented	Weak HC odour ?
S-2983	4156.75	ii	As S-2982	
S-2984	4162.05	ii	As S-2981	
S-2985	4167.05	ii	Sandstone (siltstone?), light grey brown, very fine, mod. hard, slight silt-laminated, micro-micaceous, cemented	

Sample nos.	Depth in m*	Sample type	Lithological description	Remarks
S-2986	4170.05	it	Sandstone (siltstone?), grey brown, very fine, hard, silt-laminated, carbonaceous, micro-micaceous, cemented	
S-2987	4174.84	M	Sandstone, light grey, medium to coarse, hard, cemented	Weak HC odour ?
S-2988	4175.50	it	Coal/ carbonaceous shale, brown to black, firm to mod. hard	
S-2989	4178.89	it	Sandstone, light grey brown, fine, hard, micro-micaceous, cemented	
S-2990	4184.05	ii	As S-2989	
S-2991	4188.97	ii	Sandstone, light grey brown, medium to coarse, hard, cemented	
S-2992	4194.85	ii	As S-2991	
S-2993	4263.07	ii	As S-2991	
S-2994	4263.74	ii	Coal, black, brittle, pyrite	
S-2995	4268.90	ii	Sandstone, light grey, med. hard, micro-micaceous, occ. carbonaceous, cemented	
S-2996	4272.93	ii	Sandstone, light grey, fine to medium, hard, micro-micaceous, cemented	
S-2997	4492.57	ii	Sandstone, grey, fine to medium, mod. hard, cemented	

* Depths of swc and gravel are in mRKB, while core depths are given in uncorrected m

Table 2

WELL : 6506/11-1

TOC AND ROCK EVAL TYPE DATA

Depth m KB	Sample number		51	S2	TOC	HI	PP	PI	TMAX
3168,00	S2998	*	0,5	0,3			0,8	0,65	
3188,00	S2999	*	1,0	0,0			1,0	0,97	
3217,00	S3000	*	0,3	0,7	0,9	73	1,0	0,34	427
3250,00	S3001	*	0,3	0,7	0,9	76	1,0	0,28	429
3710,50	S3002	*	1,2	0,3			1,5	0,81	
3745,00	S3003A	*	3,7	1,5	1,9	79	5,3	0,71	
3745,00	S3003B	x	1,2	1,8	1,9	94	3,1	0,40	437
4141,20	S2980	*	0,3	0,1			0,4	0,76	
4145,74	S2981	*	0,4	0,0			0,4	0,98	
4150,98	S2982	*	0,7	0,0			0,8	0,95	
4156,75	S2983	x	0,6	0,0			0,7	0,97	
4162,05	S2984	x	0,4	0,0			0,5	0,98	
4167,05	S2985	x	0,3	0,0			0,4	0,93	
4170,05	S2986	x	0,3	0,0			0,4	0,93	
4174,84	S2987	x	0,4	0,0			0,5	0,98	
4175,50	S2988	x	2,8	3,0	9,1	33	5,9	0,49	449
4178,89	S2989	x	0,4	0,0			0,5	0,94	
4184,05	S2990	x	0,4	0,0			0,4	1,00	
4188,97	S2991	x	0,2	0,0			0,2	0,88	
4194,85	S2992	in	0,1	0,0			0,2	0,94	
4263,07	S2993	*	0,0	0,0			0,0	0,75	
4263,74	S2994	x	20,2	199,9	86,0	232	220,2	0,09	453
4268,90	S2995	x	0,1	0,0			0,1	0,71	
4272,93	S2996	*	0,1	0,0			0,2	0,95	
4492,57	S2997	x	0,0	0,0			0,0	0,33	

HI=Hydrogen Index (mgHK/g TOC) // OI=Oksygen Index (mgC02/g TOC)
 PP=Production potential (kgHK/ton rock) // PI=Production Index

Table 3

WELL : 6506/11-1

EXTRACTION DATA (PPM OF ROCK)

Depth m KB	Sample number		TOTAL	HYDROCARBONS			NON HYDROCARBONS		
			EOM	SAT	ARO	Total	Asph	NSO	Total
3745,00	S3003A	*	13040						
3745,00	S3003B	*	7314						
"4141720"	S2980	*	641	367	145	512	42	88	130
4145,74	S2981	*	886	558	181	739	48	99	147
4150,98	S2982	*	1277	854	250	1104	34	139	173
4156,75	S2983	*	1211						
4162,05	S2984	*	908	573	172	745	27	135	162
4167,05	S2985	*	741	417	134	551	50	140	190
4170,05	S2986	*	887						
4174,84	S2987	*	988	536	169	705	68	214	282
4178,89	S2989	*	953						
4184,05	S2990	*	829	479	153	632	88	109	197
4188,97	S2991	x	492	274	94	368	63	61	124
4194,85	S2992	*	407	245	72	317	55	35	90
4268,90	S2995	*	273						
4272,93	S2996	*	388	220	73	293	53	43	96

EXTRACTION DATA (I OF EOM)

Depth m KB	Sample number		HYDROCARBONS			NON HYDROCARBONS		
			SAT	ARO	Total	Asph	NSO	Total
4141,20	S2980	x	57,25	22,62	79,88	6,55	13,73	20,28
4145,74	S2981	x	62,98	20,43	83,41	5,42	11,17	16,59
4150,98	S2982	*	66,88	19,58	86,45	2,66	10,88	13,55
4162,05	S2984	x	63,11	18,94	82,05	2,97	14,87	17,84
4167,05	S2985	x	56,28	18,08	74,36	6,75	18,89	25,64
4174,84	S2987	*	54,25	17,11	71,36	6,88	21,66	28,54
4184,05	S2990	*	57,78	18,46	76,24	10,62	13,15	23,76
4188,97	S2991	x	55,69	19,11	74,80	12,80	12,40	25,20
4194,85	S2992	x	60,20	17,69	77,89	13,51	8,60	22,11
"4272,93	S2996	x	56,70	18,81	75,52	13,66	11,08	24,74

Table 4

UELL : 6506/11-1

GAS CHROMATOGRAPHIC DATA

Depth m KB	Sample number		PRISTANE PHYTANE	PRISTANE N-C17	PHYTANE N-C18	A/B	CPU	CPI2
3745,00	S3003A	*	1,92	0,61	0,44	1,39	1,02	0,89
3745,00	S3003B	*	2,89	0,70	0,38	1,84	1,26	1,26
4141,20	S2980	*	2,00	0,62	0,39	1,59	1,09	0,96
4145,74	S2981	*	2,13	0,62	0,37	1,68	1,20	1,00
4150,98	S2982	*	1,87	0,63	0,39	1,62	1,13	1,00
4156,75	S2983	*	1,81	0,62	0,38	1,63	1,09	1,04
4162,05	S2984	*	2,14	0,61	0,38	1,61	1,10	0,91
4167,05	S2985	x	1,82	0,63	0,38	1,66	1,15	0,87
4170,05	S2986	*	1,91	0,60	0,36	1,67	1,11	1,04
4174,84	S2987	*	2,02	0,61	0,38	1,61	1,20	1,04
4178,89	S2989	*	1,93	0,60	0,36	1,67	1,05	1,01
4184,05	S2990	*	2,01	0,61	0,37	1,65	1,15	0,92
4188,97	S2991	*	2,05	0,61	0,37	1,65	1,16	1,05
4194,85	S2992	*	1,83	0,61	0,37	1,65	1,09	1,00
4268,90	S2995	x	1,89	0,78	0,43	1,81	1,12	1,01
4272,93	S2996	*	1,94	0,73	0,43	1,70	1,10	0,93

Depth m KB	Sample number		MPI1	MPI2
4141,20	S2980	*	0,92	1,13
4145,74	S2981	x	0,80	0,94
4150,98	S2982	x	0,89	1,08
4162,05	S2984	x	0,94	1,16
4167,05	S2985	*	0,98	1,22
4174,84	S2987	x	0,93	1,16
4184,05	S2990	x	0,94	1,16
4188,97	S2991	x	0,95	1,17
4194,85	S2992	x	0,99	1,21
4272,93	S2996	*	1,02	1,29

Table 5: Tentative biomarker ratios, well 6506/11-1

Sample nos.	Depth in m*	Steranes			Hopanes	
		m/z 217 % 20S	m/z 259** % BB	C27:C28:C29	m/z 191 % Tt#X***	% Ts/Ts+Tm
S-2980	4141.20	50.0	63.6	47:25:28	-	75.7
S-2981	4145.74	62.5	63.6	49:24:27	-	75.0
S-2982	4150.98	61.5	62.9	45:24:31	88.9	73.9
S-2991	4188.97	64.3	65.0	47:23:30	84.2	72.3
S-2992	4194.85	60.0	63.4	45:24:31	94.4	72.0
S-2996	4272.93	55.6	62.0	44:28:28	88.0	65.7

* Depths are given in uncorrected m

** Relative distribution of 13j3(H) , 17 α (H) 20S/R diasteranes

*** After Cornford et al., 1986

WELL 6506/11-1

S-2988, 4175.5m

Unfortunately, problems were encountered in preparing this sample for examination in reflected light and therefore, given the small sample size available, no data were obtained from this sample.

S-2994, 4263.74m

Vitrinite reflectance: 1.19% (30). Sporinite Fluorescence: 7?

This coal sample contains abundant pyrite, often in quite large accumulations. The coal is rather inertinitic in nature, macrinite and semi-fusinite being particularly common. Band vitrinite is relatively well-developed, although this can often be difficult to distinguish from semi-fusinite in some of the coal chips. In general, reflectance measurements were restricted to the lowest reflecting vitrinite population although proximity to large inertinite or pyrite accumulations caused some problems. Dark liptinite stringers are also relatively common, although these do not generally show fluorescence when viewed under ultra-violet light. Yellow-orange fluorescent calcite is reasonably common, and often appears to infill voids in inertinite-rich chips.

Sample Identification: T-4533 #47; 6506/11-1
Reference number: 22.1884.10
(1/D)

VITRINITE REFLECTANCE DATA

TKU NO	SAMPLE ID	DEPTH (M)	VITRINITE REFLECTANCE	REL RAT	STANDARD DEVIATION	FLUORESCENCE
S-2988	---	4175.50	N.D.P.	-	---	-
S-2994	---	4263.74	1.19 (30)	F	0.12	6-7?

REL RAT (Reliability Rating): G = Good; F = Fair; P = Poor
S = Stained; R = Reworked.

VISUAL KEROGEN ANALYSIS

TABLE NO.: 1
WELL NO.: 6506/11-1

Sample	Depth (m)	Compo- sition of residue	Particle size	Preser- vation palyno- morphs	Thermal maturation index *	Remarks
S 2988	4175.50	Am: <5% Lm: <5% W: <5% C: >95%	F-M-	No palyno- morphs observed	NDP	Organic residue totally dominated by small and medium-sized, black coaly fragments.
S 2994	4263.74	Am: <5% Lm: <5% U: >95% C:	F-M-L	No palyno- morphs observed	NDP	Organic residue totally dominated by (dark brown and) black angular woody/coaly phyto-clasts.

ABBREVIATIONS:

Am = Amorphous
Al = Algae
W = Woody material
C = Coaly fragments
Lm = Liptinitic material

F = Fine
M = Medium
L = Large

* see experimental

ISOTOPANALYSER BRØI6506/11-1
 T 6269 NR. 118

1. INNLEDNING

50 ekstraktfraksjoner ble mottatt for isotopanalyse juni 1988,,
 ^{13}C er bestemt i fraksjonene.

2. ANALYSEPROSEDYRE

2-3 rag (eller så mye som mulig) av prøven forbrennes i glassampuller med CuO ved 550°C i 1 time. Alle isotopbestemmelser er foretatt på et Finnigan MAT 251 massespektrometer. Vår verdi på NBS 22 er -29.77 ± 0.6 o/oo PDB.

3. RESULTATER

$^{13}\text{C}/^{12}\text{C}$ isotopverdiene for ekstraktfraksjonene er gitt i Tabell 1.

Tabell 1 ^{13}C i ekstraktfraksjoner brønn 6506/11-1

Prøvenr.	IFE nr.	$^{13}\text{C}/^{12}\text{C}$				
		EOM	SAT	ARO	NSO	ASF
S-2980	7459	-28.0	-28.6	-26.8	-28.1	-28.0
S-2981	7460	-28.0	-28.6	-26.7	-28.1	-28.0
S-2982	7461	-28.0	-28.6	-26.7	-28.6	-28.0
S-2984	7462	-28.2	-28.6	-26.7	-28.1	-28.0
5-2985	7463	-28.0	-28.6	-26.6	-28.2	-27-9
5-2987	7464	-28.2	-28.7	-26.8	-28.3	-28.2
5-2990	7465	-28.2	-28.7	-26.8	-28.3	-28.1
5-2991	7466	-28.3	-28.7	-26.9	-28.1	-28.1
5-2992	7467	-28.2	-28.7	-27.0	-28.7	-28.1
5-2996	7468	-28.6	-28.7	-26.8	-28.1	-27-8