

7125/4-1

Geochemical Data Report

Analytical procedures

Canned cuttings samples were sent onshore for Delta ^{13}C isotope analysis in headspace gas and eventually analysed by APT, Kjeller, Norway. Also, such samples were analysed for vitrinite reflectance by the same contractor.

All other macrogeochemical analysis, including the GC and GCMS measurements on oils and sediments, were carried out at the Norsk Hydro Research Centre in Bergen. The GC and GCMS analysis were based on quantitative measurement techniques. The analytical methods are in accordance with the guidelines in the Norwegian Industry Guide to Organic Geochemical Analyses (NIGOGA 2000, edition 4.0). There are some deviation from this guide, however:

- Extract and asphaltene workup by centrifugation
- Internal standard compound mixture added for quality control and quantitative measurements
- GC analysis of aromatic fractions by 5% phenyl methyl- silicone stationary phase
- GC- MSD detection of the aromatic hydrocarbons (not by FID)
- Some limitations on the reporting of compounds relative to the NIGOGA guide due to known co-elutions or disputable compound identities

The data quality control is according to laboratory procedures and NIGOGA, available on request. Samples annotated "NSO1" represent the North Sea reference oil and reflect the analytical repeatability.

The data generated on the basis of the 7125/4-1 well material in this report has according to standard procedures on NOCS been reported digitally to Petrobank.

SOURCE ROCKS

In Table 3-1 are shown the Rock Eval pyrolysis data.

Depth (m MD)	Sample type	TOC %	S1 (kg/g)	S2 (kg/g)	S3 (kg/g)	Tmax °C	PI (mg/g TOC)	H/I (mg/g TOC)
810-820	DCW	0.95	0.44	0.52	1.24	402	0.46	55
830-840	DCW	4.06	0.13	9.89	1.82	423	0.01	242
847-850	DCW	2.85	0.23	5.41	6.21	428	0.04	183
856-859	DCW	3.50	0.19	7.54	4.35	422	0.02	215
866.5	SWC	15.27	1.70	31.49	2.18	405	0.05	206

Table 3-1: Rock Eval pyrolysis data

Depth (m MD)	Sample type	EOM		Ash of EOM (%)	EOM Group Type %				EOM Group Type % (reform)				
		SAT	NSO		SAT	ASO	NSO	Sum	SAT	ASO	NSO	ASPH	Sum
810-820	DCW	6.21	21.33	4.3	57.4	21.8	21.8	100.0	55.6	26.8	28.3	4.2	100.0
830-840	DCW	0.20	20.47	59.8	17.8	23.7	48.5	100.0	7.2	13.5	19.5	59.8	100.0
847-850	DCW	0.12	11.96	36.7	29.1	27.8	43.9	100.0	18.4	17.6	27.2	36.7	100.0
856-859	DCW	0.33	33.23	21.3	21.9	22.7	55.4	100.0	17.2	17.9	43.6	21.3	100.0
866.5	SWC	1.25	12.547	59.2	15.3	33.0	50.7	100.0	6.6	13.5	20.7	59.2	100.0

Table 3-2: C15+ chemical extraction data

Depth (m RKB)	Sample type	23aaRS (% 29S)	Ts/Tm (% 27Ts)	Ro(Ts) Vitr. Exp. (%)	MPR-I
810-820	DCW	46	38	0.53	0.56
830-840	DCW	16	11	0.29	0.43
847-850	DCW	16	20	0.37	0.37
856-859	DCW	12	16	0.34	0.39
866.5	SWC	11	2	0.22	0.42
NSO1	REF OIL	53	50	0.64	0.64

Table 3-3: Biomarker maturity ratios

4 THERMAL MATURITY

4.1 Vitrinite reflectance

Vitrinite reflectance of 38 samples (31 DC and 7 COCH) throughout the well profile was determined (APT, 2007). The resulting average reflectance values versus depth are shown in Table 4-1 and Figure 4-1.

Sample number	Depth (m)	Vitrinite reflectance			Quality of data	Vitrinite reflectance			Quality of data
		Stale	Count	Stale		Stale	Count	Stale	
40480	560	0.27	0.01	2	f				Recycled Population
40481	580	0.20	0.04	3	f				Recycled Population
40482	600	0.27	0.01	2	f				Recycled Population
40483	620	0.22	0.05	3	f				Recycled Population
40484	630	0.27	0.01	2	f				Recycled Population
40485	680	0.23	0.01	2	f				Recycled Population
40486	710	0.19	0.00	1	f				Recycled Population
40487	730	Recycled Population							Recycled Population
40488	750	Recycled Population							Recycled Population
40489	770	Recycled Population							Recycled Population
40490	790	0.39	0.03	5	f				Recycled Population
40491	800	0.35	0.02	2	f				Recycled Population
40492	830	0.30	0.03	8	f	0.37	0.04	7	f
40493	850	0.33	0.00	2	f				Recycled Population
40327	887.8	Recycled Population							Recycled Population
40328	888.5	Recycled Population							Recycled Population
40329	891.5	Recycled Population							Recycled Population
40330	893.8	0.25	0.00	2	f	0.45	0.01	3	f
40331	896.15	Recycled Population							Recycled Population
40332	906.8	Recycled Population							Recycled Population
40333	908.4	0.33	0.02	3	f				Recycled Population
40494	931	0.32	0.02	2	p				Recycled Population
40495	976	Recycled Population							Recycled Population
40496	1030	NDP				0.42	0	1	p
40497	1084	Recycled Population							Recycled Population
40498	1129	0.30	0.01	2	f				Recycled Population
40499	1174	0.36	0.03	1	f				Recycled Population
40500	1228	0.31	0.00	1	f				Recycled Population
40501	1282	0.29	0.05	5	f				Recycled Population
40502	1345	0.37	0.03	7	g				Recycled Population
40503	1390	0.29	0.05	12	s				Recycled Population
40504	1417	0.29	0.02	3	f	0.39	0.05	3	f
40505	1462	0.29	0.03	3	f	0.37	0.07	18	s
40506	1534	0.37	0.03	3	f	0.33	0.01	2	f
40507	1561	0.45	0.02	3	f	0.52	0.03	5	f
40508	1579	0.47	0.00	1	f	0.49	0.03	4	f
40509	1597	0.37	0.07	3	f				Recycled Population
40510	1615	0.39	0.00	1	f				Recycled Population

p = poor data; f = fair data; g = good reliable data; NDP = No Determination possible

Table 4-1: Summary data for primary vitrinite population from well 712S/4-1

4.2 Pyrolysis Tmax- values

For extra maturity control on the data under Section 4.1, a suite of 12 samples were, in addition to the 5 samples from the Hekkingen Fm already reported, chemically extracted and subjected to Rock Eval pyrolysis both before and after chemical extraction. The reason to perform Rock Eval pyrolysis after extraction was to remove any depletion in Tmax- values from possible mud- contamination and migrated hydrocarbons. The resulting data are shown in Table 4-2.

Depth m MD	Sample type	TOC (%)		S1 (kg/t)		S2 (kg/t)		S3 (kg/t)		Tmax (°C)	
		UNEXTRACTED	EXTRACTED								
490- 496	DCW	0.72	0.69	0.02	0.01	0.40	0.38	1.20	1.02	427	429
590- 600	DCW	0.85	0.87	0.04	0.01	0.78	0.56	3.28	2.52	427	428
670- 680	DCW	1.20	1.18	0.03	0.01	0.69	0.58	2.88	2.65	431	431
740- 750	DCW	0.88	0.77	0.07	0.03	0.36	0.14	4.87	4.01	416	424
810- 820	DCW	0.95	0.86	0.44	0.01	0.52	0.18	1.24	1.08	402	418
830- 840	DCW	4.08	3.96	0.12	0.06	9.89	8.43	1.82	1.72	433	428
847- 850	DCW	2.95	2.89	0.23	0.08	5.41	4.06	6.21	11.43	436	430
856- 859	DCW	3.50	3.63	0.19	0.07	7.54	7.35	4.35	4.92	432	429
866- 875	SWC	15.27	15.02	1.78	0.84	21.49	20.32	2.18	2.94	405	426
898-15	COCH	0.32	0.31	0.02	0.06	0.22	0.10	3.00	3.23	405	408
991- 994	DCW	0.23	0.25	0.06	0.06	0.12	0.08	2.76	2.20	405	407
1128- 1129	DCW	0.48	0.39	0.06	0.08	0.17	0.18	4.80	4.40	430	437
1225- 1228	DCW	0.53	0.54	0.08	0.07	0.30	0.20	6.86	6.94	434	435
1342- 1345	DCW	0.27	0.28	0.06	0.05	0.11	0.08	3.89	3.63	428	427
1346- 7	SWC	*	0.26	*	0.02	*	0.14	*	1.70	*	422
1459- 1462	DCW	0.81	0.73	0.17	0.04	0.74	0.53	2.83	2.28	431	434
1594- 1597	DCW	0.36	0.31	0.05	0.03	0.27	0.21	2.23	1.88	434	438

Table 4-2: Rock Eval pyrolysis before and after extraction of 17 sediment samples from well 7125/4-1

5.1 Composition of C1- nC6+ in headspace gas of canned cuttings

In Table 5-1 is shown the composition of the C1- nC6+ gas measured in headspace of the canned cuttings and in Table 5-2 are shown the normalised C1- nC5- data (to 100%). All data are given in gas volume % at ambient temperature.

Sample no MD HNB	C1 %	C2 %	C3 %	C4 %	nC5 %	C6 %	nC7 %	nC8 %	CO2 %	Sum %	Total gas ppm	Comments
570- 560	66.74	9.31	8.81	2.20	5.90	1.50	1.10	0.14	2.80	100.00	68934	
640- 650	66.61	8.96	11.10	2.90	4.50	1.40	1.10	0.20	3.90	100.00	79514	
700- 710	64.19	4.58	7.69	3.59	5.89	2.98	2.68	0.37	7.29	100.00	730341	Shows at 699- 702 m
740- 750	1.30	9.00	8.00	0.00	0.00	0.00	0.00	0.00	98.70	100.00	232	< determination limit
790- 800	82.01	2.20	2.50	1.40	2.20	1.30	1.10	0.40	8.80	100.00	34368	
820- 830	82.21	13.30	17.30	3.50	3.30	1.30	0.60	0.20	3.30	100.00	34368	Associated with oil
930- 931	48.61	3.22	7.30	4.50	7.60	5.00	4.50	2.50	16.60	100.00	5566	Gas cavity (oil)
970- 976	18.40	3.20	19.20	10.10	21.09	11.10	16.60	4.20	4.00	100.00	17735	Associated (water zone)
1027- 1030	3.50	0.33	3.80	1.40	3.20	1.80	3.60	3.05	86.20	100.00	1188	< determination limit
1061- 1084	52.14	5.19	8.80	4.98	4.10	4.50	2.10	1.60	19.48	100.00	3878	
1126- 1129	14.08	1.40	3.20	1.10	1.50	0.75	0.82	3.20	74.85	100.00	729	< determination limit
1171- 1174	39.67	1.50	2.10	2.10	2.00	1.40	1.10	1.80	48.86	100.00	1465	< determination limit
1225- 1228	73.84	5.80	2.60	4.50	3.30	3.10	1.50	0.85	5.80	100.00	137573	Sample in sea. oil zone
1279- 1282	62.51	1.70	8.00	5.00	4.80	8.10	4.90	2.40	9.50	100.00	184104	
1342- 1345	66.75	1.80	2.40	1.90	2.60	4.30	4.20	3.30	12.79	100.00	185562	
1387- 1390	48.80	5.70	6.50	2.70	3.90	2.10	2.30	1.24	28.70	100.00	213267	
1414- 1417	56.31	3.60	4.00	1.60	2.50	1.70	3.00	1.50	26.70	100.00	27560	
1430- 1432	58.87	18.50	11.90	3.20	4.30	1.50	1.30	0.35	2.30	100.00	288143	Associated gas & oil
1531- 1534	52.00	12.60	13.80	4.40	6.80	2.80	3.20	0.91	5.70	100.00	132785	
1594- 1597	62.24	14.50	7.90	4.00	3.80	1.50	1.10	0.50	4.30	100.00	385274	

(A lower determination limit of 2000 ppm total gas has been applied by APT in the screening for the isotope analysis)

Table 5-1: Composition of C1- C6+ and CO2 measured in headspace gas of canned cuttings

Sample no MD HNB	C1 %	C2 %	C3 %	C4 %	nC5 %	C6 %	nC7 %	nC8 %	CO2 %	Sum %	Total gas ppm	Comments
570- 560	70.8	9.6	8.6	2.3	6.1	1.5	1.1	100.00	0.37	1.38	68934	
640- 650	68.7	8.4	11.6	3.0	4.7	1.8	1.1	100.00	0.64	1.37	79514	
700- 710	68.3	8.0	8.6	4.0	8.4	3.3	2.8	100.00	0.63	1.15	730341	"Associated gas" from oil
740- 750	100.0	0.0	8.6	0.0	0.0	0.0	0.0	100.00			232	
790- 800	84.5	2.4	2.7	1.5	2.4	1.4	1.2	100.00	0.64	1.18	34368	
820- 830	87.2	18.50	12.30	3.6	3.30	1.50	0.90	100.00	0.35	1.38	288143	Associated gas & oil
930- 931	60.4	4.6	9.0	5.6	9.3	6.2	8.6	100.00	0.60	1.11	5566	Co-nC6 associated with oil
970- 976	17.9	3.5	21.0	11.0	23.0	12.1	11.8	100.00	0.46	1.05	17735	
1027- 1030	20.2	2.0	13.3	8.4	19.1	19.3	21.5	100.00	0.43	0.50	1188	
1061- 1084	68.1	6.6	7.5	6.3	5.2	5.7	2.7	100.00	1.22	2.14	3878	Some biodegradation?
1126- 1129	61.5	8.4	10.1	5.4	8.4	3.4	3.7	100.00	0.73	0.91	729	
1171- 1174	78.3	3.0	4.2	4.3	4.1	2.8	2.3	100.00	1.05	1.37	1465	
1225- 1228	79.0	8.0	2.6	4.5	3.5	3.3	1.6	100.00	1.96	2.07	137573	Biodegradation of C6- nC5
1279- 1282	71.0	1.9	3.4	6.7	8.6	6.9	5.6	100.00	1.04	1.24	184104	
1342- 1345	79.6	2.1	2.0	3.3	3.8	5.1	5.0	100.00	0.76	1.02	185562	
1387- 1390	68.9	8.1	9.3	3.3	8.6	3.0	3.3	100.00	0.89	0.91	213267	
1414- 1417	78.5	5.6	2.8	3.5	2.4	3.8	1.8	100.00	0.64	0.85	27560	
1430- 1432	60.1	17.2	12.3	3.3	4.3	1.5	1.1	100.00	0.34	1.35	288143	Non-degraded C6- nC4
1531- 1534	55.7	13.5	13.7	4.7	7.1	3.0	2.4	100.00	0.67	1.37	132785	
1594- 1597	65.4	15.3	6.4	4.2	4.0	1.6	1.2	100.00	1.05	1.36	385274	

5.2 Delta 13C isotope analysis on headspace gas in canned cuttings

The canned cuttings were analysed for Delta 13C isotopes of C1- nC4 hydrocarbons and CO2 in headspace. The resulting data are shown in Table 5-3.

Depth (m MD RKB)	Delta 13C- value (‰)						Comments
	C1	C2	C3	nC4	nC4	CO2	
570- 580	-43.6	-32.6	-32.9	-31.7	-32.5	-37.6	
640- 650	-44.1	-33.1	-32.4	-31.3	-32.4	-33.6	
700- 710	-42.7	-32.6	-32.8	-30.9	-32.5	-26.7	Shows at 699- 702 m
740- 750	*						< determination limit
790- 800	-42.2	-32.0	-32.9	-30.3	-31.8	-26.4	
820- 830	-43.5	-33.2	-32.1	-31.0	-31.6	-30.8	
928- 931	-43.7	-33.2	-32.9	-31.1	-32.7		Reservoir (oil)
973- 976	-46.1	-33.9	-33.0	-32.1	-33.5		Reservoir (water zone)
1027- 1030	*						< determination limit
1081- 1084	-46.2	-33.4	-32.8				
1126- 1129	*						< determination limit
1171- 1174	*						< determination limit
1225- 1228	-42.6						Sample in res. oil zone
1279- 1282	-43.4						
1342- 1345	-44.1						
1387- 1390	-43.6	-32.0	-28.5			-32.6	
1414- 1417	-42.3						
1459- 1462	-40.1	-31.7	-29.9	-30.0	-31.1		Reservoir (gas & oil)
1531- 1534	-41.3	-31.7	-30.4	-30.7			
1594- 1597	-48.4	-31.1	-28.2	-28.4	-28.6		

Table 5-3: Delta 13C- values of C1- nC4 and CO2 in headspace of canned cuttings samples

6.1 Composition of MDT- gases and Delta 13C isotope analysis

In Table 6-1 are shown the composition of the MDT- gases from C1- nC6+ gas chromatography that was performed in conjunction with the analysis of the Delta D1 and the Delta 13C isotope values. Since none of the gases released significant amounts of associated liquids when relieved of pressure during the PVT-characterisation, a GOR for the gases was not possible to determine. The MDT- oil samples from 938.1 m RKB, 967.2 m RKB and 1487.8 m RKB did, however, release associated gases when relieved of pressure. The C1- nC6+ gas composition of these are also shown in Table 6-1.

Sample type	Depth (m RKB)	Volume %								Sum	Total gas (mmms)
		C1	C2	C3	nC4	nC5	nC6	C6+	CO2		
MDT- gas	882.4	98.90	1.00	1.40	0.37	0.49	0.18	0.12	0.03	0.00	99.98
MDT- gas	898.6	98.80	2.20	1.60	0.38	0.82	0.19	0.14	0.05	0.00	99.98
MDT- oil	938.1	78.30	5.00	8.80	3.80	4.30	2.40	1.50	0.30	0.00	169.00
MDT- gas	952.0	98.80	1.00	1.00	0.40	0.41	0.20	0.21	0.04	0.00	99.98
MDT- oil	967.2	89.10	4.00	6.70	1.80	3.70	1.40	1.20	0.27	0.00	99.37
MDT- gas	1477.3	95.40	2.50	6.80	0.24	0.46	0.17	0.23	0.04	0.11	99.98
MDT- oil	1487.8	89.80	7.00	5.60	1.00	3.00	1.00	0.74	0.14	0.12	99.99

Table 6-1: Composition of MDT gases and associated gases from GC of C1- nC6+ (volume %)

In Table 6-2 are shown the isotope- analysis of both the gases and the associated gases. In Figure 6-1 are shown plots of Delta 13C values for components C1- nC4.

Sample type	Depth (m RKB)	Delta 13C (‰)						Delta D1 (‰ ¹⁴ C)
		C1	C2	C3	nC4	nC5	nC6	
MDT- gas	882.4	-42.2	-32.3	-32.5	-29.4	-30.2	*	-193
MDT- gas	898.6	-44.0	-32.7	-34.4	-30.3	-31.8	*	-193
MDT- oil	938.1	-48.8	-31.0	-32.7	-30.8	-32.1	*	-197
MDT- gas	952.0	-44.8	-31.8	-33.7	-30.1	-31.4	*	-195
MDT- oil	967.2	-48.8	-33.7	-33.8	-31.7	-32.7	*	-198
MDT- gas	1477.3	-41.5	-31.1	-29.1	-29.2	-27.8	*	-105
MDT- oil	1487.8	-41.8	-31.8	-29.8	-29.8	-28.8	*	-191

Table 6-2: Delta 13C isotope analysis and Delta D1 analysis of gases and associated gases

In Table 6-3 are shown the Pristane/Phytane- ratios, Pristane/nC17- ratios and Phytane/nC18- ratios from the C5-C20 gas chromatography.

Depth (m RKB)	Sample type	Pr/Ph- ratio	Pr/nC17- ratio	Ph/nC18- ratio
914.5	MDT OIL A	1.49	1.09	0.67
914.5	MDT OIL B	1.52	1.13	0.69
938.1	MDT OIL	1.49	1.12	0.66
967.2	MDT OIL	1.55	1.17	0.92
11437.8	MDT OIL	1.63	0.99	0.77
NSO1	REF OIL	1.60	0.59	0.45
SENLIX	REF OIL	1.45	0.90	0.69

Table 6-3: Pristane/Phytane- ratios, Pristane/nC17- ratios and Phytane/nC18- ratios calculated from C5- C20 Gas chromatography

6.3 C15+ extraction data of MDT- oils and SWCs

MDT oils and SWCs were chemically extracted and fractionated (latroscan/MPLC) for preparative purposes and the resulting data are shown in Table 6-5.

Depth (m RKB)	Sample type	EOM		Asph. of EOM (%)	EOM Group Type %					EOM Group Type % (renorm)				
		%	ppm		SAT	ARO	NSO	Sum	SAT	ARO	NSO	ASPH	Sum	
914.5	MDT OIL A			3.4	62.6	24.4	12.8	100.0	60.6	23.6	12.2	3.4	100.0	
914.5	MDT OIL B			8.9	63.1	27.3	9.6	100.0	62.5	27.0	9.5	8.9	100.0	
938.1	MDT OIL			8.7	64.7	24.2	11.1	100.0	64.3	24.8	11.0	8.7	100.0	
967.2	MDT OIL			8.7	61.6	23.1	15.2	100.0	61.2	23.8	15.1	8.7	100.0	
1186.6	SWC	0.46	4561	19.6	73.7	21.8	5.3	100.0	66.3	18.9	4.7	19.0	100.0	
1186.6	SWC	0.76	7578	2.3	72.9	21.8	5.3	100.0	70.5	21.1	5.1	3.3	100.0	
1198.7	SWC	0.40	3959	18.0	73.6	20.4	6.0	100.0	66.2	18.3	5.4	10.0	100.0	
1198.8	SWC	0.36	3650	6.3	74.4	19.8	6.0	100.0	69.7	18.4	5.6	6.3	100.0	
1198.9	MOTOR OIL			8.8	72.7	19.8	7.3	100.0	73.3	19.7	7.3	8.8	100.0	
NSO1	REF OIL			0.2	64.6	26.1	9.3	100.0	64.5	26.1	9.3	0.2	100.0	
SENLIX	REF OIL			0.2	75.2	19.9	5.9	100.0	75.0	19.8	5.8	0.2	100.0	

(OIL A was collected in the MDT- chamber proper, OIL B in the test pumphouse because because of a faulted O- ring)

Table 6-5: C15+ EOM Group type values for MDT- oils and SWCs

In Table 6-6 are shown the Pristane/Phytane, the Pristane/nC₁₇- ratios and the Phytane/nC₁₈- ratios from GC/FID of C₁₅₊ saturate fractions

Depth (m RKB)	Sample type	Pr/Ph- ratio	Pr/nC ₁₇ - ratio	Ph/nC ₁₈ - ratio
810- 820	DCW	1.37	1.06	0.81
830- 840	DCW	1.35	2.62	2.43
847- 850	DCW	1.07	2.60	3.36
856- 858	DCW	1.13	2.51	2.63
966.5	SWC	1.27	6.09	7.50
914.5	MDT OIL A	1.42	1.07	0.86
914.5	MDT OIL B	1.42	1.09	0.89
938.1	MDT OIL	1.40	1.06	0.87
967.2	MDT OIL	1.45	1.07	0.87
1185.6	SWC	1.34	0.90	0.93
1186.8	SWC	1.49	0.90	0.93
1196.7	SWC	1.32	0.84	0.87
1198.8	SWC	1.52	0.92	0.86
1487.8	MDT OIL	1.37	0.87	0.71
INS01	REF OIL	1.55	0.86	0.43
SENLIX	REF OIL	1.55	0.88	0.66

Table 6-6 : Pristane/Phytane- ratios, Pristane/nC₁₇- ratios and Phytane/nC₁₈- ratios from GC/FID of C₁₅₊ saturate fractions

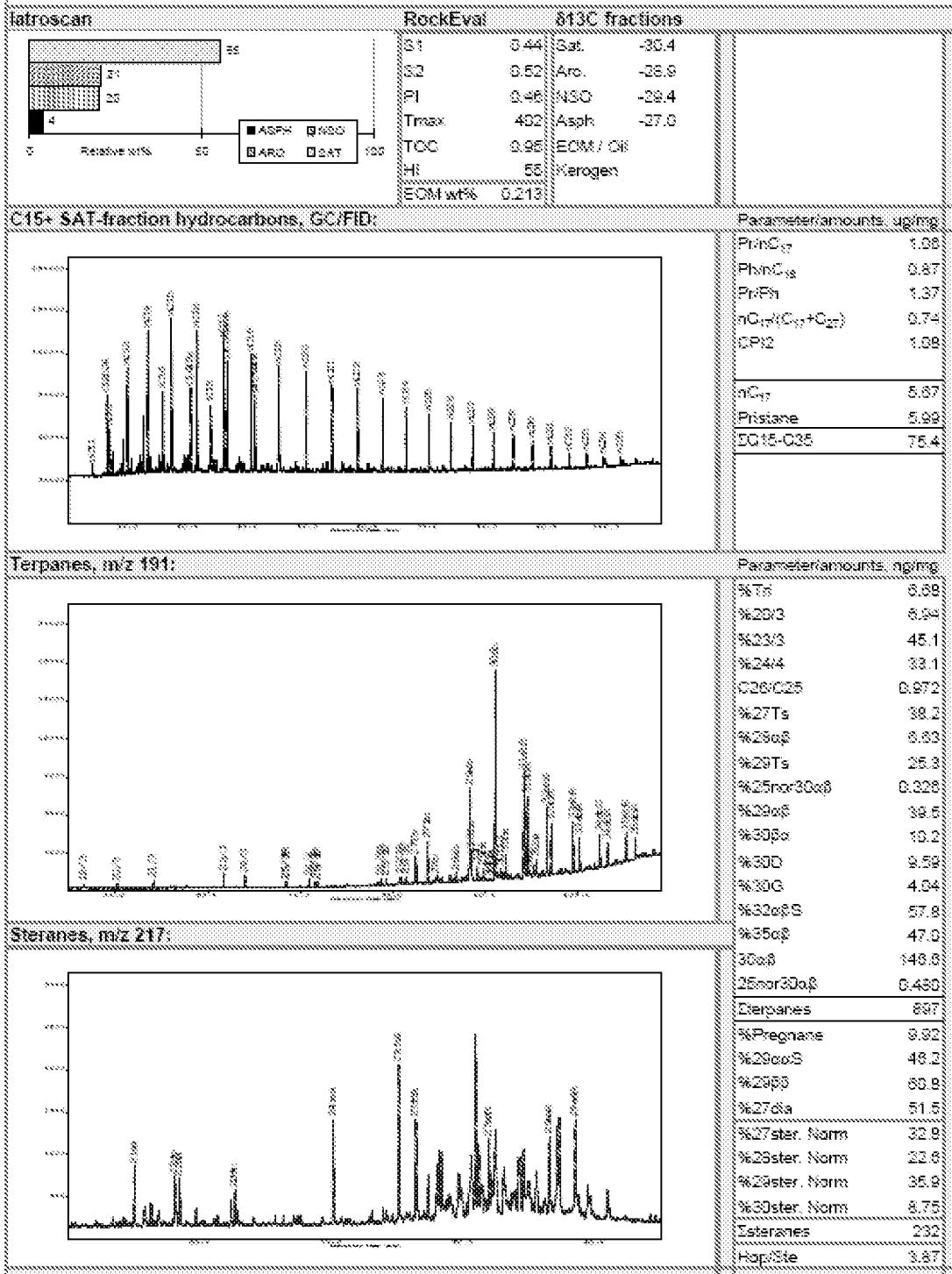
In Table 6-7 are shown the maturity of the oils represented by selected common maturity ratios for main biomarker classes steranes (represented by C₂₉aaR/S), terpanes (represented by C₂₇Ts/Tm) and aromatics (represented by m- phenantrenes, i.e. the index MPI-1).

Depth (m RKB)	Sample type	C ₂₉ aaR/S (% 29S)	Ts/Tm (% 27Ts)	Ro/Ts Vitr. Eq. (%)	MPI-1	R _m Aro Vitr. Eq. (%)
914.5	MDT OIL A	54	43	0.57	0.61	0.77
914.5	MDT OIL B	53	44	0.56	0.60	0.76
938.1	MDT OIL	58	43	0.58	0.62	0.77
967.2	MDT OIL	55	43	0.57	0.60	0.76
1185.6	SWC	42	67	0.78	0.53	0.72
1186.8	SWC	44	67	0.79	0.56	0.74
1196.7	SWC	42	67	0.78	0.48	0.69
1198.8	SWC	39	64	0.75	0.44	0.67
1487.8	MDT OIL	54	64	0.77	0.65	0.79
INS01	REF OIL	58	59	0.64	0.64	0.79
SENLIX	REF OIL	60	72	0.63	0.77	0.86

Table 6-7 : Common maturity ratios of saturate and aromatic biomarkers in MDT oils and EOM fractions of SWCs

Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): DC, 810-820 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 OrgID: 2479872, PlanID: 696090

Sediment sample



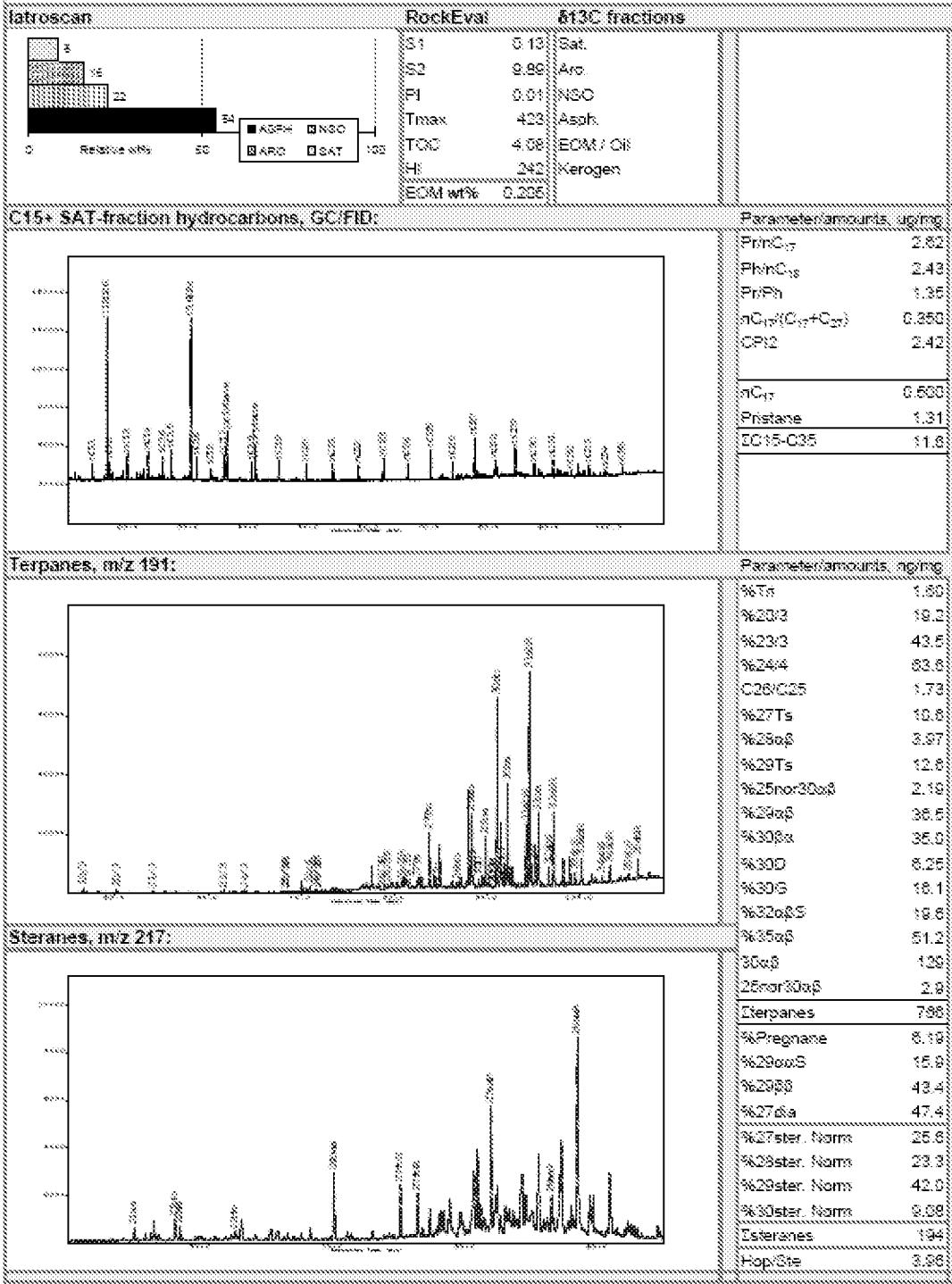
StatoilHydro

Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): DC, 830-840 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 DrigID: 26729673, PlateID: 695001

Sediment sample



ExP Research Centre,
 Bergen, Norway



StatoilHydro

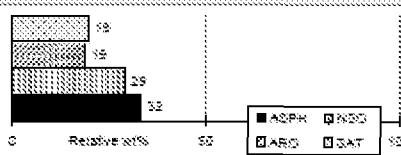
Country, well/location: NOR, 7125/4-1,
 Sample type, depth (m): DC, 847-858 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 Oryg ID: 247879, Plated: 596003

Sediment sample



Hydro
ESP Research Centre,
Bergen, Norway

Iatroscan



RockEval

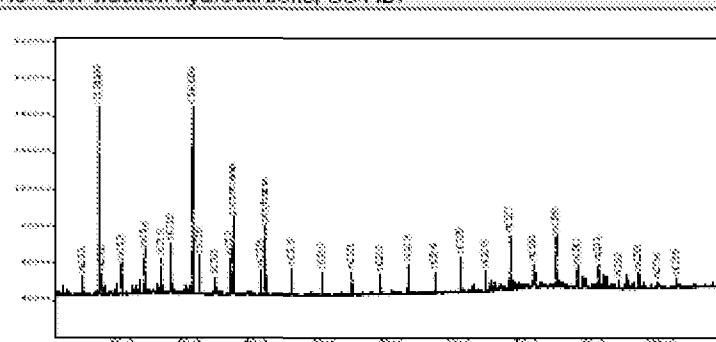
S1	0.23	Sat.	-33.0
S2	5.41	Aro.	-29.8
F1	0.04	NSO	-28.9
Tmax	428	Asph.	-29.7
TOC	2.96	EOM / Oil	
HI	183	Nitrogen	
EOM w/w%	0.120		

$\delta^{13}\text{C}$ fractions

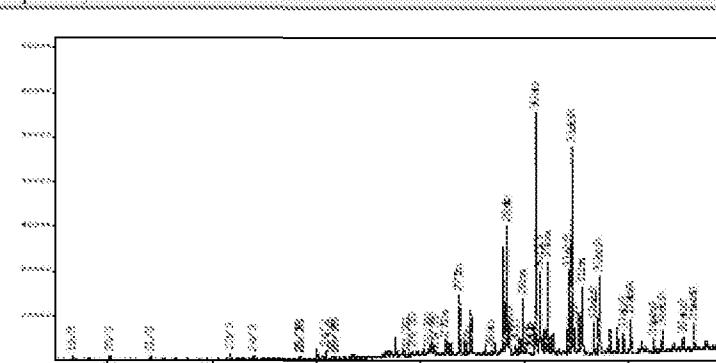
Parameter amounts, $\mu\text{g}/\text{mg}$

Pr/lnC ₁₇	2.80
Ph/lnC ₁₈	3.36
Pr/Ph	1.87
nC ₁₇ /(C ₁₇ +C ₂₇)	0.388
CPI2	2.51
mC ₁₇	0.620
Pristane	1.81
Σ C ₁₅ -C ₃₅	13.8

C15+ SAT-fraction Hydrocarbons, GC/FID:



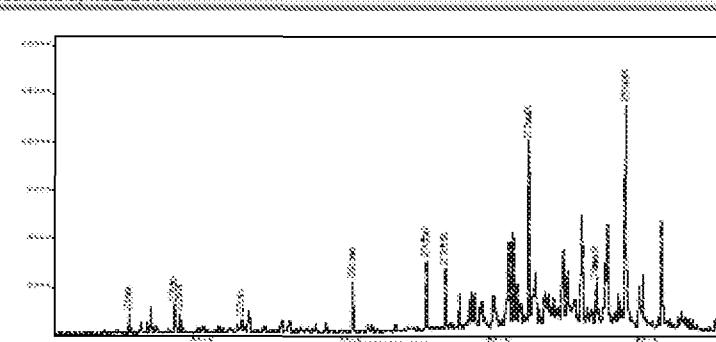
Terpanes, m/z 191:



Parameters amounts, ng/mg

%Tn	2.80
%C ₂₀ /3	12.3
%C ₂₃ /3	51.3
%C ₂₄ /4	61.2
C ₂₆ /C ₂₅	1.15
%C ₂₇ Ts	19.7
%C ₂₈ α B	1.85
%C ₂₉ Ts	11.9
%C ₂₅ norC ₂₆ α B	1.79
%C ₂₉ α B	44.1
%C ₃₀ B α	27.2
%C ₃₀ D	5.05
%C ₂₀ G	13.3
%C ₂₈ β B	27.7
%C ₃₅ α B	51.7
3D α 3	184.7
25nor30 α B	3.37
Terpanes	1083
%Pregnane	8.70
%C ₂₉ oxS	15.9
%C ₂₉ B β	42.5
%C ₂₇ dia	48.2
%C ₂₇ ster. Norm	27.4
%C ₂₈ ster. Norm	25.5
%C ₂₉ ster. Norm	37.1
%C ₃₀ ster. Norm	10.0
Isteranes	300
Hop/Ster	3.54

Steranes, m/z 217:



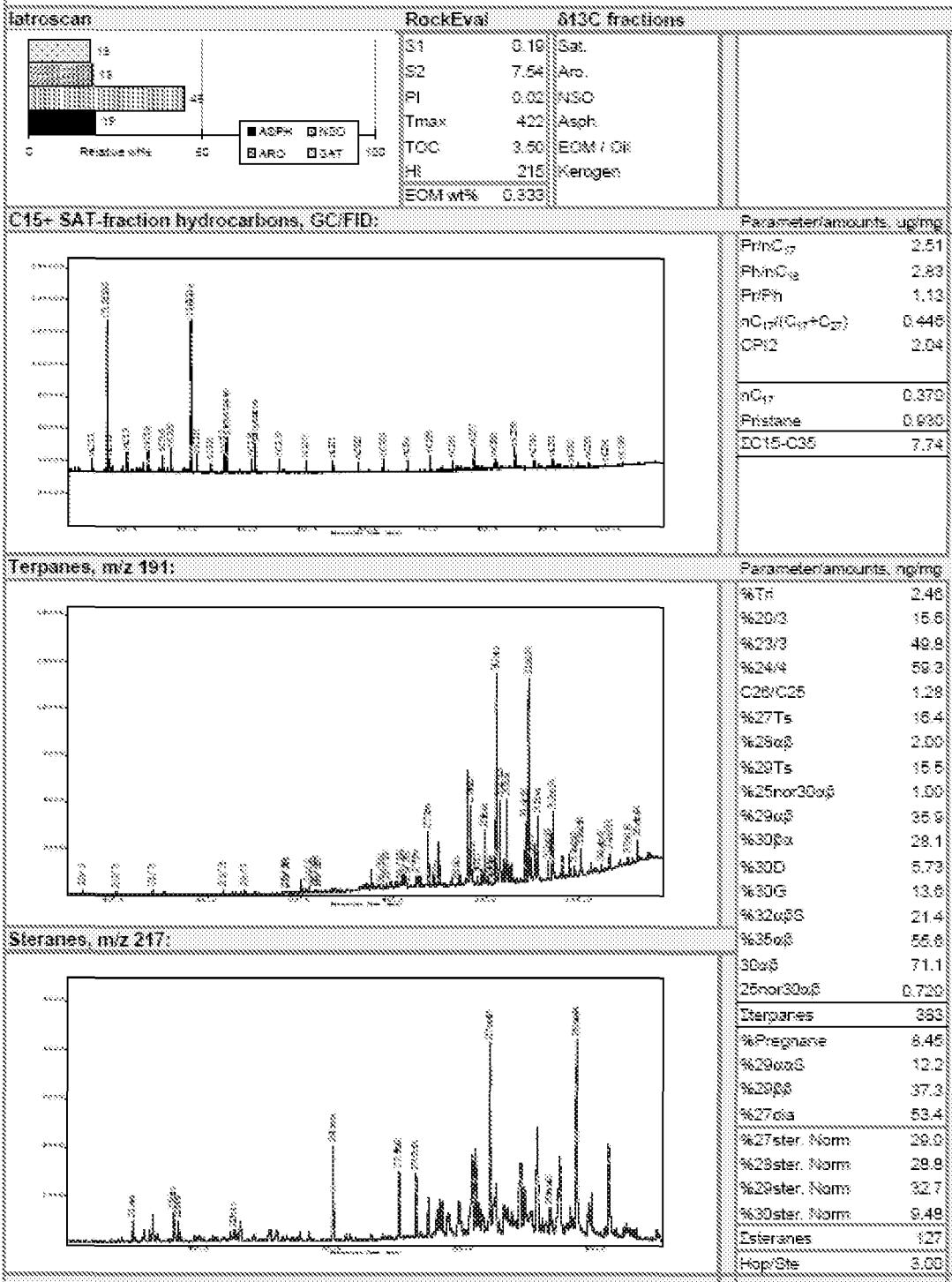
StatoilHydro

Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): DC, 856-859 m MD RKB
 Stratigraphy (Gr/Fm.):
 Mud system: KCOOH
 Remarks:
 DrilID: 2475975, PlanID: 634603

Sediment sample



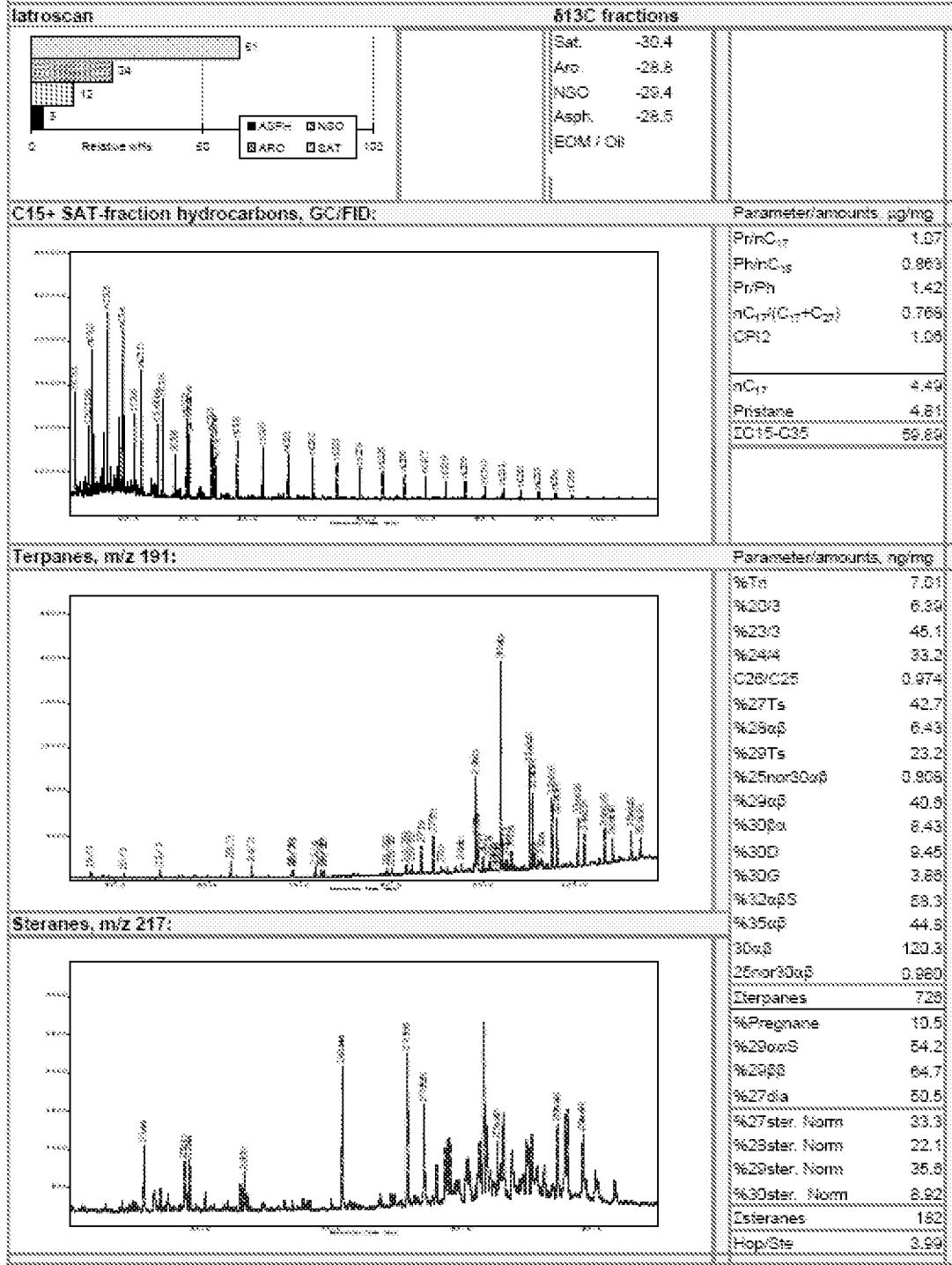
HYDRO
 EGP Research Centre,
 Bergen, Norway



StatoilHydro

Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): MDT oil, 914.5-914.5 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 OrgID: 2489492, PlanID: 694153

Fluid sample

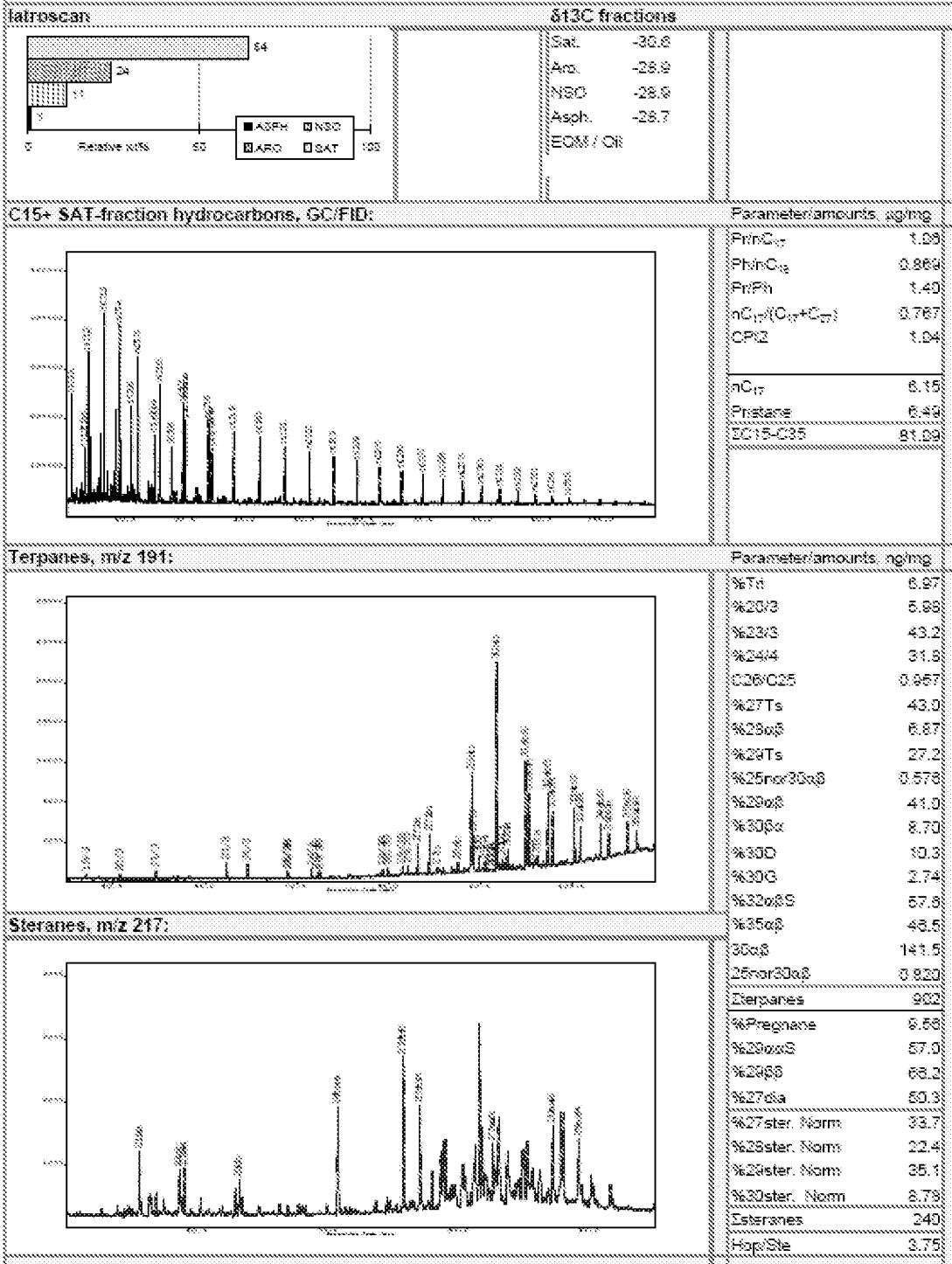


Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): MDT oil, 938.12-938.12 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 ObjID: 2458433, PlanID: 662036

Fluid sample

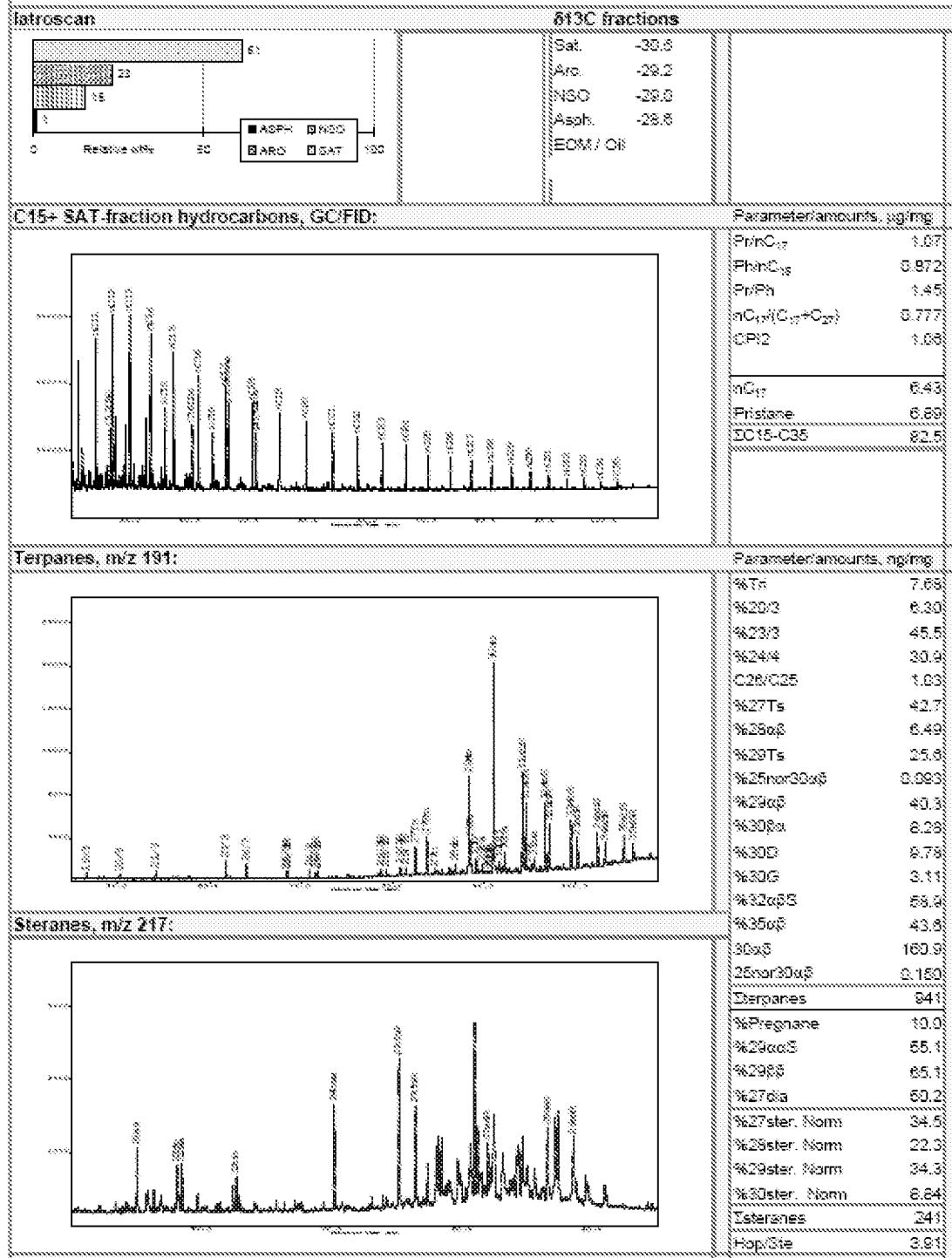


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Bergen, Norway



StatoilHydro

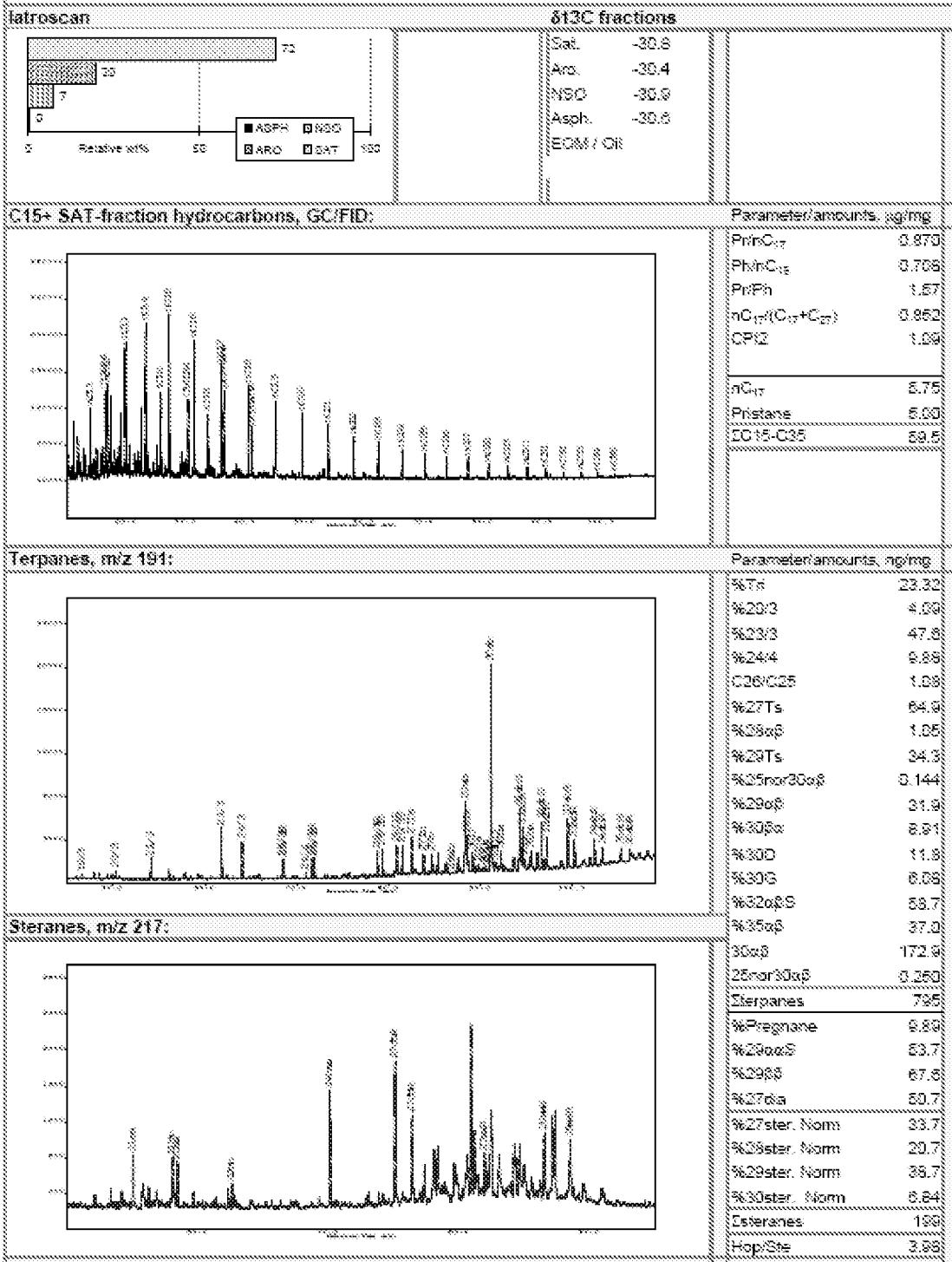
Country, well/location:	NOR, 7125/4-1.	 Fluid sample E&P Research Centre, Stavanger, Norway
Sample type, depth (m):	MDT oil, 967.2-867.2 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:	KCOOH	
Remarks:		

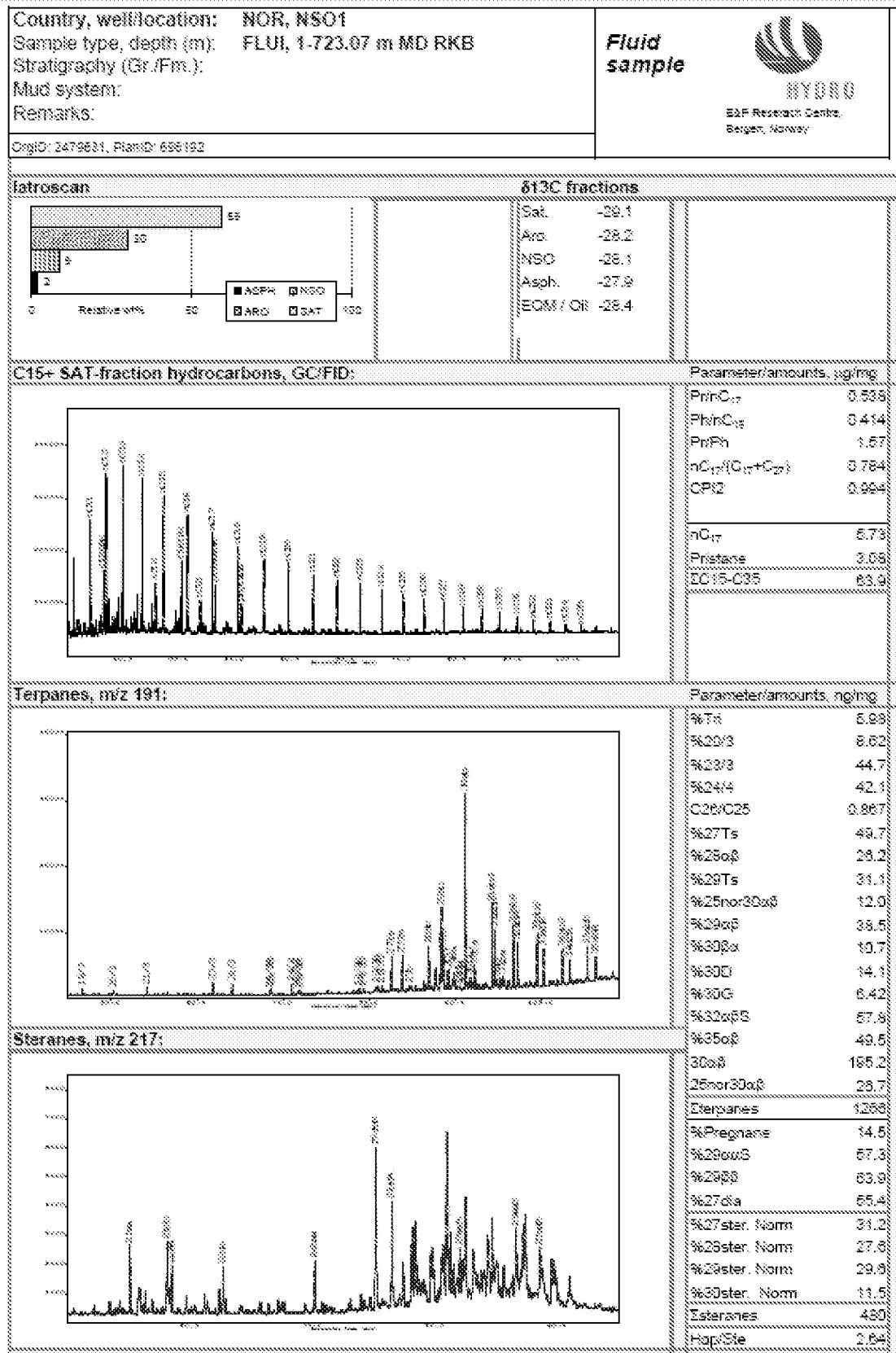


StatoilHydro

Country, well/location: NOR, 7125/4-1.
 Sample type, depth (m): MDT oil, 1487.8-1487.8 m MD RKB
 Stratigraphy (Gr./Fm.):
 Mud system: KCOOH
 Remarks:
 OrgID: 2479681, FileID: 696231

Fluid sample





StatoilHydro