



TABLE: 2.5.2

SATURATED BIOMARKER RESULTS (STERANES), WELL NOR:25/11-15

Depth (m)	Lithology	Type	%29 α S	%29 β	%Preg	%27ste	%28ste	%29ste	%30ste	Ho/St1	Ho/St2
1734.55	SST	COCH	47	69	18	33	25	32	10		2
1737.60	SST	COCH	47	69	19	33	25	32	10		2
1739.60	SST	COCH	48	67	18	34	24	32	10		2
1741.40	SST	COCH	49	69	18	33	25	32	10		2
1747.50	SST	COCH	45	68	19	32	25	33	10		2
1751.50	SST	COCH	45	69	19	34	25	32	9		2
1755.50	SST	COCH	47	68	19	34	26	31	9		2
1758.50	SST	COCH	50	67	19	33	26	31	10		2
1761.50	SST	COCH	48	67	19	33	26	32	10		2
1764.50	SST	COCH	49	68	19	32	26	32	10		2
1767.50	SST	COCH	49	67	19	34	25	32	9		2
1770.45	SST	COCH	48	68	18	33	25	33	10		2
1773.50	SST	COCH	46	67	19	32	25	32	10		2
1774.00		OIL	47	68	19	33	25	32	10		2
1775.50	SST	COCH	48	68	19	33	25	32	10		2
1777.35	SST	COCH	47	69	19	34	25	31	9		2
1778.50	SST	COCH	47	69	19	33	25	32	10		2
1780.50	SST	COCH	49	68	18	33	26	32	9		2
1783.50	SST	COCH	48	69	19	33	25	32	10		2
1785.50	SST	COCH	47	68	19	33	24	32	10		2
1786.50	SST	COCH	47	68	22	34	25	32	10		2
1789.50	SST	COCH	40	62	25	34	27	29	10		3
1791.50	SST	COCH	38	61	27	35	26	29	10		3
1795.70	SST	COCH	27	56	43	37	26	27	10		3



TABLE: 2.5.3

SATURATED BIOMARKER RESULTS (TERPANE RATIOS), WELL NOR:25/11-15

Depth (m)	Type	%20/3	%23/3	%24/4	%27Ts	%28αβ	%29Ts	%25nor	%29αβ	%30βα	%30D	%30G	%32αβS	%35αβ
1734.55	COCH	11	45	35	54	25	33	17	40	5	20	11	59	47
1737.60	COCH	11	44	35	56	24	37	18	39	9	21	12	59	46
1739.60	COCH	11	44	37	53	24	38	18	39	9	21	12	58	46
1741.40	COCH	12	44	35	56	26	34	20	42	10	21	13	58	45
1747.50	COCH	11	43	34	54	26	37	20	42	10	22	14	57	46
1751.50	COCH	11	44	37	54	27	35	19	44	9	23	12	60	46
1755.50	COCH	12	43	38	55	25	36	19	41	9	21	12	57	45
1758.50	COCH	11	43	35	55	24	36	18	39	9	20	12	60	44
1761.50	COCH	11	44	36	53	25	38	20	40	9	22	12	61	45
1764.50	COCH	11	44	36	54	23	39	17	37	8	20	11	58	45
1767.50	COCH	10	44	36	53	23	38	18	39	9	21	13	58	45
1770.45	COCH	11	44	35	55	25	35	19	41	9	20	12	58	46
1773.50	COCH	11	45	37	51	26	36	19	41	9	21	12	58	46
1774.00	OIL	11	47	36	53	24	35	19	39	8	20	11	60	45
1775.50	COCH	12	45	37	53	24	36	18	40	9	20	12	59	47
1777.35	COCH	11	45	38	56	26	37	19	41	9	21	13	60	45
1778.50	COCH	11	45	35	55	25	35	19	41	9	21	12	58	46
1780.50	COCH	10	44	35	54	25	37	19	41	9	22	13	59	45
1783.50	COCH	12	44	35	55	26	34	20	42	10	21	13	60	45
1785.50	COCH	11	45	38	54	24	37	19	39	9	19	11	59	47
1786.50	COCH	14	48	34	53	23	37	17	38	9	20	10	59	44
1789.50	COCH	15	51	33	57	22	35	15	37	9	20	10	53	46
1791.50	COCH	13	51	31	55	20	41	18	38	8	19	11	54	43
1795.70	COCH	18	57	28	58	19	38	14	38	10	13	10	54	43

TABLE: 2.5.4



SATURATED BIOMARKER RESULTS (TERPANE DISTRIBUTION), WELL NOR:25/11-15

Depth (m)	Lithology	Type	%Tri	%27h	%28h	%29h	%30h	%31h	%32h	%33h	%34h	%35h	Analysing Company
1734.55	SST	COCH	12	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1737.60	SST	COCH	13	12	5	12	18	18	13	11	6	5	NORSK HYDRO
1739.60	SST	COCH	12	12	5	12	18	18	13	11	6	5	NORSK HYDRO
1741.40	SST	COCH	12	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1747.50	SST	COCH	13	12	5	12	16	19	13	11	6	5	NORSK HYDRO
1751.50	SST	COCH	13	12	6	14	16	18	13	11	6	5	NORSK HYDRO
1755.50	SST	COCH	12	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1758.50	SST	COCH	13	12	5	12	17	18	14	11	6	5	NORSK HYDRO
1761.50	SST	COCH	13	12	5	12	17	18	13	11	6	5	NORSK HYDRO
1764.50	SST	COCH	12	12	5	12	18	19	13	10	6	5	NORSK HYDRO
1767.50	SST	COCH	12	12	5	12	18	18	13	10	6	5	NORSK HYDRO
1770.45	SST	COCH	13	12	5	13	17	18	13	10	6	5	NORSK HYDRO
1773.50	SST	COCH	13	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1774.00		OIL	12	11	5	12	18	18	13	11	6	5	NORSK HYDRO
1775.50	SST	COCH	12	12	5	13	18	18	13	10	6	5	NORSK HYDRO
1777.35	SST	COCH	12	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1778.50	SST	COCH	13	12	5	13	17	19	13	11	6	5	NORSK HYDRO
1780.50	SST	COCH	13	11	5	13	17	18	13	10	6	5	NORSK HYDRO
1783.50	SST	COCH	13	12	5	13	17	18	13	11	6	5	NORSK HYDRO
1785.50	SST	COCH	12	12	5	12	18	18	12	11	6	5	NORSK HYDRO
1786.50	SST	COCH	15	12	5	12	18	18	13	11	6	5	NORSK HYDRO
1789.50	SST	COCH	16	12	4	12	17	18	14	11	6	5	NORSK HYDRO
1791.50	SST	COCH	18	12	4	13	18	18	13	10	7	5	NORSK HYDRO
1795.70	SST	COCH	25	12	4	16	20	17	12	9	6	5	NORSK HYDRO

TABLE: 2.7.1

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HYDRO

ISOTOPE ANALYSIS RESULTS (OIL SAMPLES), WELL NOR:25/11-15

St.Depth (m)	En.Depth (m)	Name	d13C OIL	d13C SAT	d13C ARO	d13C POL	d13C ASP	Analysing Company
1736.00	1774.00	DST # 1	-28.40	-28.90	-28.20			GERG
1736.00	1774.00	DST # 1		-28.94	-28.14	-28.10	-28.17	GEOLABNOR

TABLE: 2.7.2

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HYDRO

ISOTOPE ANALYSIS RESULTS (SEDIMENT SAMPLES), WELL NOR:25/11-15

Depth (m)	Lithology	Type	d13C EXTR	d13C SAT	d13C ARO	d13C POL	d13C ASP	d13C KERO	Analysing Company
1734.55	SST	COCH		-29.19	-28.28	-28.56	-28.52		GEOLABNOR
1747.50	SST	COCH		-29.14	-28.35				GEOLABNOR
1761.50	SST	COCH		-29.11	-28.35				GEOLABNOR
1770.45	SST	COCH		-29.21	-28.39				GEOLABNOR
1786.50	SST	COCH		-29.89	-28.06	-28.90	-28.15		GEOLABNOR
1795.70	SST	COCH		-26.55	-26.79				GEOLABNOR

TABLES AND FIGURES (Chapter 3)

- Table 3.2.1 Rock-Eval data for well 25/11-18
- Table 3.3.1 Extraction/deasphalting data (oil) for well 25/11-18
- Table 3.3.2 Extraction/deasphalting data (sediments) for well 25/11-18
- Table 3.3.3 Composition of deasphalted oil (Iatroscan), well 25/11-18
- Table 3.3.4 Composition of deasphalted extract (Iatroscan), well 25/11-18
- Table 3.4.1 Saturated fraction molecular ratios (oil sample), well 25/11-18
- Table 3.4.2 Saturated fraction molecular ratios (sediment samples), well 25/11-18
- Table 3.5.1 Saturated biomarker results (summary, sediment and oil samples), well 25/11-18
- Table 3.5.2 Saturated biomarker results (steranes, sediment and oil samples), well 25/11-18
- Table 3.5.3 Saturated biomarker results (terpane ratios, sediment and oil samples), well 25/11-18
- Table 3.5.4 Saturated biomarker results (terpane distribution, sediment and oil samples), well 25/11-18
- Table 3.7.1 Isotope analysis results (oil sample), well 25/11-18
- Table 3.7.2 Isotope analysis results (sediment samples), well 25/11-18
-
- Figure 3.2.1 Rock-Eval results vs. depth, well 25/11-18
- Figure 3.3.1 EOM and asphaltene contents vs. depth, well 25/11-18
- Figure 3.3.2 Iatroscan results vs. depth, well 25/11-18
- Figure 3.4.1 Saturated hydrocarbon distribution profiles (concentrations relative to EOM, FID-SAT data), well 25/11-18
- Figure 3.4.2 Saturated hydrocarbon distribution profiles (normalised concentrations, FID-SAT data), well 25/11-18
- Figure 3.5.1 Saturated biomarker distribution profiles (concentrations relative to EOM, MSD-SAT data), well 25/11-18
- Figure 3.5.2 Saturated biomarker distribution profiles (normalised concentrations, MSD-SAT data), well 25/11-18

TABLE: 3.2.1

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ROCK EVAL SCREENING DATA, WELL NOR:25/11-18

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
1721.60	SST	COCH		30.2	8.7	3.5	250	0.78	NORSK HYDRO
1721.60	ADD/SST	COCH		33.5	1.3	3.0	45	0.96	NORSK HYDRO
1750.00	SST	COCH		45.0	18.4	5.6	329	0.71	NORSK HYDRO
1755.00	SST	COCH		73.0	31.0	9.2	337	0.70	NORSK HYDRO
1772.03	SST	COCH		39.6	7.0	4.1	171	0.85	NORSK HYDRO
1781.04	SST	COCH		31.1	6.1	3.3	185	0.84	NORSK HYDRO
1790.04	ADD/SST	COCH		34.3	0.6	2.9	22	0.98	NORSK HYDRO

ROCK EVAL SCREENING DATA, WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
1606.00	SST	SWC	426	18.6	7.4	2.7	275	0.72	NORSK HYDRO
1732.00	SST	COCH	426	40.9	20.6	5.5	377	0.67	NORSK HYDRO
1742.00	SST	COCH	419	26.8	10.3	3.4	301	0.72	NORSK HYDRO

TABLE: 3.3.1

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DEASPHALTING DATA (OILS), WELL NOR:25/11-18 T2

St.Depth (m)	En.Depth (m)	Name	OIL (mg)	ASP (mg)	ASP (%)	Analysing Company
1755.00	1755.00	SRFT	55.00	1.8	3.3	NORSK HYDRO

TABLE: 3.3.2

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HYDRO

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:25/11-18

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
1721.60	SST	COCH	7.0	320.0		4.58	1.7	45800	3.5	1.3	NORSK HYD
1721.60	ADD/SST	COCH	14.4	840.0		5.83	0.2	58300	3.0	2.0	NORSK HYD
1750.00	SST	COCH	9.6	974.0		10.15	2.2	*****	5.6	1.8	NORSK HYD
1755.00	SST	COCH	8.4	*****		12.93	3.1	*****	9.2	1.4	NORSK HYD
1772.03	SST	COCH	1.0	56.6	0.2	5.60	0.4	56000	4.1	1.4	NORSK HYD
1781.04	SST	COCH	1.0	54.3	1.0	5.22	1.8	52200	3.3	1.6	NORSK HYD
1790.04	ADD/SST	COCH	1.0	60.7	0.1	5.95	0.2	59500	2.9	2.1	NORSK HYD

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
1606.00	SST	SWC	2.0	68.3	4.0	3.36	5.9	33600	2.7	1.3	NORSK HYD
1732.00	SST	COCH	1.1	87.3	2.4	7.93	2.8	79300	5.5	1.5	NORSK HYD
1742.00	SST	COCH	1.1	48.0	1.1	4.32	2.3	43200	3.4	1.3	NORSK HYD

TABLE: 3.3.3

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HYDRO

COMPOSITION OF DEASPHALTED OIL (IATROSCAN), WELL NOR:25/11-18T2

(all values in %)

St.Depth (m)	En.Depth (m)	Name	Hydrocarbons				Non-HC TOTAL	TOTAL HC/Non-HC	Analysing Company
			SAT	ARO	TOTAL	SAT/ARO			
1755.00	1755.00	SRFT	26.0	54.0	80.0	0.5	20.0	4.0	NORSK HYDRO



TABLE: 3.3.4

COMPOSITION OF DEASPHALTED EXTRACT (IATROSCAN), WELL NOR:25/11-18

(all values in %)

Depth (m)	Lithology	Type	Hydrocarbons				Non-HC TOTAL	TOTAL HC/Non-HC	Analysing Company
			SAT	ARO	TOTAL	SAT/ARO			
1721.60	SST	COCH	18.0	71.0	89.0	0.3	11.0	8.1	NORSK HYDRO
1721.60	ADD/SST	COCH	2.0	96.0	98.0	0.0	2.0	49.0	NORSK HYDRO
1750.00	SST	COCH	20.0	66.0	86.0	0.3	14.0	6.1	NORSK HYDRO
1755.00	SST	COCH	25.0	60.0	85.0	0.4	15.0	5.7	NORSK HYDRO
1772.03	SST	COCH	15.0	70.0	85.0	0.2	15.0	5.7	NORSK HYDRO
1781.04	SST	COCH	24.0	59.0	83.0	0.4	17.0	4.9	NORSK HYDRO
1790.04	ADD/SST	COCH	1.0	97.0	98.0	0.0	2.0	49.0	NORSK HYDRO

COMPOSITION OF DEASPHALTED EXTRACT (IATROSCAN), WELL NOR:25/11-18T2

(all values in %)

Depth (m)	Lithology	Type	Hydrocarbons				Non-HC TOTAL	TOTAL HC/Non-HC	Analysing Company
			SAT	ARO	TOTAL	SAT/ARO			
1606.00	SST	SWC	28.0	37.0	65.0	0.8	35.0	1.9	NORSK HYDRO
1732.00	SST	COCH	27.0	37.0	64.0	0.7	36.0	1.8	NORSK HYDRO
1742.00	SST	COCH	31.0	30.0	61.0	1.0	39.0	1.6	NORSK HYDRO

TABLE: 3.4.1

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SATURATED FRACTION MOLECULAR RATIOS (OIL SAMPLES), WELL NOR:25/11-18 T2

St.Depth (m)	En.Depth (m)	Name	Pristane/ nC17	Pristane/ Phytane	CPI-I	CPI-II	nC17/ nC17+nC27	Analysing Company
1755.00	1755.00	SRFT	1.0	1.4	1.1	0.8		NORSK HYDRO



TABLE: 3.4.2

SATURATED FRACTION MOLECULAR RATIOS (SEDIMENT SAMPLES), WELL NOR:25/11-18

Depth (m)	Lithology	Type	Pristane/nC17	Pristane/Phytane	CPI-I	CPI-II	nC17/nC17+nC27	Analysing Company
1721.60	SST	COCH	1.1	1.7	1.1	0.8	NORSK HYDRO	
1721.60	ADD/SST	COCH	0.6	1.7	1.5	0.8	NORSK HYDRO	
1750.00	SST	COCH	1.1	1.6	1.0	0.9	NORSK HYDRO	
1755.00	SST	COCH	1.1	1.6	1.1	0.9	NORSK HYDRO	
1772.03	SST	COCH	1.1	1.5	1.0	0.9	NORSK HYDRO	
1781.04	SST	COCH	1.0	1.3	1.1	0.8	NORSK HYDRO	
1790.04	ADD/SST	COCH	0.2	2.0	1.0	0.9	NORSK HYDRO	

SATURATED FRACTION MOLECULAR RATIOS (SEDIMENT SAMPLES), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	Pristane/nC17	Pristane/Phytane	CPI-I	CPI-II	nC17/nC17+nC27	Analysing Company
1606.00	SST	SWC	1.4	1.2	1.4	0.9	NORSK HYDRO	
1732.00	SST	COCH	1.1	1.4	1.1	0.9	NORSK HYDRO	
1742.00	SST	COCH	1.1	1.4	1.1	0.9	NORSK HYDRO	

TABLE: 3.5.1

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HYDRO

SATURATED BIOMARKER RESULTS (SUMMARY), WELL NOR:25/11-18

Depth (m)	Lithology	Type	Name	Method Description	Data Type	Result Quality	Analysing Company
1721.60	SST	COCH 4	CENTRE	SIM on SAT fraction	amount	OK	NORSK HYDRO
1721.60	ADD/SST	COCH 4	OUTER	SIM on SAT fraction	amount	OK	NORSK HYDRO
1750.00	SST	COCH CORE # 6		SIM on SAT fraction	amount	OK	NORSK HYDRO
1755.00	SST	COCH CORE # 7		SIM on SAT fraction	amount	OK	NORSK HYDRO
1755.00	(25/11-18T2)	OIL SRFT		SIM on SAT fraction	amount	OK	NORSK HYDRO
1772.03	SST	COCH CORE # 9		SIM on SAT fraction	amount	OK	NORSK HYDRO
1781.04	SST	COCH CORE #10		SIM on SAT fraction	amount	OK	NORSK HYDRO
1790.04	ADD/SST	COCH CORE #11		SIM on SAT fraction	amount	OK	NORSK HYDRO

SATURATED BIOMARKER RESULTS (SUMMARY), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	Name	Method Description	Data Type	Result Quality	Analysing Company
1606.00	SST	SWC 26		SIM on SAT fraction	amount	OK	NORSK HYDRO
1732.00	SST	COCH		SIM on SAT fraction	amount	OK	NORSK HYDRO
1742.00	SST	COCH		SIM on SAT fraction	amount	OK	NORSK HYDRO

TABLE: 3.5.2

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HYDRO

SATURATED BIOMARKER RESULTS (STERANES), WELL NOR:25/11-18

Depth (m)	Lithology	Type	%29 α S	%29 β	%Preg	%27ste	%28ste	%29ste	%30ste	Ho/St1	Ho/St2
1721.60	SST	COCH	52	68	20	33	26	31	10		2
1721.60	ADD/SST	COCH	43	68	17	32	27	32	9		3
1750.00	SST	COCH	49	69	19	31	25	34	10		2
1755.00	SST	COCH	50	66	18	33	25	32	10		2
1755.00	(25/11-18T2)	OIL	47	68	18	33	25	32	10		3
1772.03	SST	COCH	50	68	19	34	24	32	10		2
1781.04	SST	COCH	49	69	19	33	25	33	9		2
1790.04	ADD/SST	COCH	60	44	19	38	28	14	21		2

SATURATED BIOMARKER RESULTS (STERANES), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	%29 α S	%29 β	%Preg	%27ste	%28ste	%29ste	%30ste	Ho/St1	Ho/St2
1606.00	SST	SWC	47	67	20	34	25	31	10		3
1732.00	SST	COCH	50	65	18	34	25	31	10		2
1742.00	SST	COCH	47	66	18	34	25	31	10		2



TABLE: 3.5.3

SATURATED BIOMARKER RESULTS (TERPANE RATIOS), WELL NOR:25/11-18

Depth (m)	Type	%20/3	%23/3	%24/4	%27Ts	%28αβ	%29Ts	%25nor	%29αβ	%30βα	%30D	%30G	%32αβS	%35αβ
1721.60	COCH	12	46	35	53	23	35	18	40	8	20	10	57	45
1721.60	COCH	9	45	35	52	22	32	17	42	7	19	14	58	45
1750.00	COCH	11	45	38	50	25	33	18	42	9	20	12	59	44
1755.00	COCH	11	45	36	54	27	38	20	41	9	22	12	60	43
1755.00	OIL *	11	45	37	54	24	36	20	40	10	22	12	60	45
1772.03	COCH	10	44	36	54	25	36	21	42	9	21	13	60	45
1781.04	COCH	11	47	36	54	23	37	17	38	8	19	10	59	45
1790.04	COCH	11	36	22	50	20	30	11	47	11	20	20	56	56

* 25/11-18-T2

SATURATED BIOMARKER RESULTS (TERPANE RATIOS), WELL NOR:25/11-18T2

Depth (m)	Type	%20/3	%23/3	%24/4	%27Ts	%28αβ	%29Ts	%25nor	%29αβ	%30βα	%30D	%30G	%32αβS	%35αβ
1606.00	SWC	11	44	36	54	25	36	20	42	9	21	9	57	43
1732.00	COCH	10	44	35	54	24	36	19	40	9	19	11	59	46
1742.00	COCH	12	44	35	58	23	36	17	39	10	20	11	60	46

TABLE: 3.5.4

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HYDRO

SATURATED BIOMARKER RESULTS (TERPANE DISTRIBUTION), WELL NOR:25/11-18

Depth (m)	Lithology	Type	%Tri	%27h	%28h	%29h	%30h	%31h	%32h	%33h	%34h	%35h	Analysing Company
1721.60	SST	COCH	13	12	5	14	19	18	12	10	5	4	NORSK HYDRO
1721.60	ADD/SST	COCH	12	11	5	14	17	19	13	11	7	5	NORSK HYDRO
1750.00	SST	COCH	11	12	5	13	17	18	13	10	6	5	NORSK HYDRO
1755.00	SST	COCH	12	12	6	12	17	18	13	11	6	5	NORSK HYDRO
1755.00	(25/11-18T2)	OIL	12	12	5	12	17	18	13	11	6	5	NORSK HYDRO
1772.03	SST	COCH	12	12	5	13	17	19	14	11	6	5	NORSK HYDRO
1781.04	SST	COCH	12	12	5	13	19	18	13	11	6	5	NORSK HYDRO
1790.04	ADD/SST	COCH	23	13	3	14	14	19	14	9	6	8	NORSK HYDRO

SATURATED BIOMARKER RESULTS (TERPANE DISTRIBUTION), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	%Tri	%27h	%28h	%29h	%30h	%31h	%32h	%33h	%34h	%35h	Analysing Company
1606.00	SST	SWC	12	11	5	12	16	18	14	11	7	5	NORSK HYDRO
1732.00	SST	COCH	12	11	5	12	17	19	14	11	6	5	NORSK HYDRO
1742.00	SST	COCH	12	12	5	12	17	18	13	11	7	6	NORSK HYDRO

TABLE: 3.7.1

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ISOTOPE ANALYSIS RESULTS (OIL SAMPLES), WELL NOR:25/11-18 T2

St.Depth (m)	En.Depth (m)	Name	d13C OIL	d13C SAT	d13C ARO	d13C POL	d13C ASP	Analysing Company
1755.00	1755.00	SRFT	-28.55	-29.05	-28.20	-28.21		GEOLABNOR

TABLE: 3.7.2

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ISOTOPE ANALYSIS RESULTS (SEDIMENT SAMPLES), WELL NOR:25/11-18

Depth (m)	Lithology	Type	d13C EXTR	d13C SAT	d13C ARO	d13C POL	d13C ASP	d13C KERO	Analysing Company
1721.60	SST	COCH		-29.12	-28.06	-28.27	-28.28		GEOLABNOR
1750.00	SST	COCH		-29.22	-27.86				GEOLABNOR
1755.00	SST	COCH		-29.19	-20.41				GEOLABNOR
1772.03	SST	COCH		-29.22	-27.54				GEOLABNOR
1781.04	SST	COCH		-29.23	-28.36				GEOLABNOR

ISOTOPE ANALYSIS RESULTS (SEDIMENT SAMPLES), WELL NOR:25/11-18T2

Depth (m)	Lithology	Type	d13C EXTR	d13C SAT	d13C ARO	d13C POL	d13C ASP	d13C KERO	Analysing Company
1606.00	SST	SWC		-29.17	-28.31	-28.34	-28.29		GEOLABNOR
1732.00	SST	COCH		-29.25	-28.41				GEOLABNOR
1742.00	SST	COCH		-29.06	-28.33	-28.38	-28.20		GEOLABNOR

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Table 5.2.2 Extraction/deasphalting data (sediments) for well 25/8-4

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Table 5.4.2 Extraction/deasphalting data (sediments) for well 25/11-16

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Figure 5.2.2 Rock-Eval results vs. depth, well 25/8-4

Figure 5.2.3 EOM and asphaltene concentration vs. depth, well 25/8-4

Figure 5.3.1 CPI plot, well 25/11-15

Figure 5.3.2 Rock-Eval results vs. depth, well 25/11-15

Figure 5.3.3 EOM and asphaltene concentration vs. depth, well 25/11-15

Figure 5.4.1 CPI plot, well 25/11-16

Figure 5.4.2 Rock-Eval results vs. depth, well 25/11-16

Figure 5.4.3 EOM and asphaltene concentration vs. depth, well 25/8-4

TABLE: 5.2.1

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HYDRO

ROCK EVAL SCREENING DATA, WELL NOR:25/8-4

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
1744.50	SST	COCH	417	34.8	11.0	4.3	255	0.76	NORSK HYDRO
1745.90	SST	COCH	420	30.2	11.1	3.8	291	0.73	NORSK HYDRO
1749.80	SST	COCH	417	21.6	5.3	2.5	212	0.80	NORSK HYDRO
1777.50	SST	COCH	417	16.1	4.6	2.0	233	0.78	NORSK HYDRO
1780.80	SST	COCH	419	26.5	7.7	3.2	244	0.77	NORSK HYDRO
1781.60	SST	COCH	337	0.1	0.1	0.1	100	0.41	NORSK HYDRO
1782.60	SST	COCH	335	0.1	0.1	0.1	100	0.33	NORSK HYDRO

TABLE: 5.2.2

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HYDRO

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:25/8-4

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)		Analysing Company
1744.50	SST	COCH	1.3	81.9		6.25	4.2	62500	4.3	1.5		NORSK HYD
1745.90	SST	COCH	1.3	70.8		5.40	4.6	54000	3.8	1.4		NORSK HYD
1749.80	SST	COCH	1.5	61.4		3.99	4.1	39900	2.5	1.6		NORSK HYD
1777.50	SST	COCH	1.6	32.9		1.99	5.3	19900	2.0	1.0		NORSK HYD
1780.80	SST	COCH	1.3	57.0		4.38	4.6	43800	3.2	1.4		NORSK HYD
1781.60	SST	COCH	12.3	6.1	1.2	0.05	19.7	500	0.1	0.5		NORSK HYD
1782.60	SST	COCH	28.2	25.8	12.9	0.09	50.0	900	0.1	0.9		NORSK HYD

TABLE: 5.4.1

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ROCK EVAL SCREENING DATA, WELL NOR:25/11-16

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
1764.60	SST	COCH	422	47.6	19.0	6.0	317	0.71	NORSK HYDRO
1765.40	SST	COCH	425	52.3	21.1	6.5	323	0.71	NORSK HYDRO
1766.50	SST	COCH	428	63.9	30.2	8.3	364	0.68	NORSK HYDRO
1767.40	SST	COCH	425	44.9	17.0	5.5	307	0.73	NORSK HYDRO
1768.35	SST	COCH	424	67.8	35.8	9.2	391	0.65	NORSK HYDRO
1769.80	SST	COCH	419	63.7	30.4	8.4	364	0.68	NORSK HYDRO
1770.70	SST	COCH	422	54.0	23.3	7.1	330	0.70	NORSK HYDRO
1771.50	SST	COCH	423	54.9	26.3	7.2	366	0.68	NORSK HYDRO
1772.50	SST	COCH	427	51.7	21.4	6.5	329	0.71	NORSK HYDRO
1773.50	SST	COCH	425	54.9	22.5	6.9	326	0.71	NORSK HYDRO
1774.50	SST	COCH	423	56.4	25.5	7.3	349	0.69	NORSK HYDRO
1775.50	SST	COCH	423	50.1	20.1	6.3	318	0.71	NORSK HYDRO
1776.50	SST	COCH	426	76.8	43.8	10.6	413	0.64	NORSK HYDRO
1778.50	SST	COCH	425	56.1	24.0	7.1	338	0.70	NORSK HYDRO
1779.50	SST	COCH	424	63.0	32.3	8.5	382	0.66	NORSK HYDRO
1780.50	SST	COCH	422	70.1	35.5	9.3	383	0.66	NORSK HYDRO
1781.50	SST	COCH	425	54.6	23.9	7.0	343	0.70	NORSK HYDRO
1782.50	SST	COCH	418	58.6	24.4	7.3	333	0.71	NORSK HYDRO
1783.50	SST	COCH	421	54.4	25.0	7.2	348	0.69	NORSK HYDRO
1784.50	SST	COCH	424	43.6	17.2	5.6	309	0.72	NORSK HYDRO
1788.90	SST	COCH	424	27.1	8.6	3.3	261	0.76	NORSK HYDRO
1789.60	SST	COCH	419	8.4	2.0	1.0	190	0.81	NORSK HYDRO
1796.60	SST	COCH	346	2.7	1.3	0.5	268	0.67	NORSK HYDRO
1797.60	SST	COCH	417	2.3	0.7	0.4	184	0.77	NORSK HYDRO
1798.90	SST	COCH	422	28.7	16.3	4.2	388	0.64	NORSK HYDRO
1799.60	SST	COCH	423	30.4	22.4	5.1	444	0.58	NORSK HYDRO
1800.60	SST	COCH	419	2.8	1.1	0.5	228	0.73	NORSK HYDRO
1801.60	SST	COCH	418	1.8	0.7	0.3	203	0.73	NORSK HYDRO
1802.60	SST	COCH	424	31.8	19.7	4.8	410	0.62	NORSK HYDRO
1803.60	SST	COCH	426	36.4	26.1	5.8	451	0.58	NORSK HYDRO
1804.60	SST	COCH	367	0.9	2.1	0.4	470	0.29	NORSK HYDRO
1805.60	SST	COCH	363	1.9	1.3	0.4	305	0.60	NORSK HYDRO
1806.90	SST	COCH	422	34.7	22.7	5.3	429	0.60	NORSK HYDRO



TABLE: 5.4.1

ROCK EVAL SCREENING DATA, WELL NOR:25/11-16 (cont'd)

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
1807.60	SST	COCH	425	35.7	22.3	5.5	403	0.62	NORSK HYDRO
1808.50	SST	COCH	423	37.9	27.2	6.1	448	0.58	NORSK HYDRO
1808.55	SST	COCH	395	1.3	0.5	0.3	200	0.70	NORSK HYDRO
1809.60	SST	COCH	412	1.0	0.3	0.2	159	0.73	NORSK HYDRO
1810.60	SST	COCH	418	1.3	0.5	0.3	185	0.73	NORSK HYDRO
1811.60	SST	COCH	422	27.3	17.0	4.2	407	0.62	NORSK HYDRO

TABLE: 5.4.2

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:25/11-16

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
1764.60	SST	COCH	1.0	68.4		6.77	5.0	67700	6.0	1.1	NORSK HYD
1765.40	SST	COCH	0.9	77.0		8.55	4.5	85500	6.5	1.3	NORSK HYD
1766.50	SST	COCH	0.6	63.8		10.46	4.8	*****	8.3	1.3	NORSK HYD
1767.40	SST	COCH	1.0	70.3		6.96	3.8	69600	5.5	1.3	NORSK HYD
1768.35	SST	COCH	0.5	59.4		11.43	3.7	*****	9.2	1.2	NORSK HYD
1769.80	SST	COCH	0.6	71.0		11.28	5.4	*****	8.4	1.4	NORSK HYD
1770.70	SST	COCH	0.7	67.5		9.24	4.1	92400	7.1	1.3	NORSK HYD
1771.50	SST	COCH	0.7	63.6		8.96	4.8	89600	7.2	1.2	NORSK HYD
1772.50	SST	COCH	0.7	61.0		8.35	4.3	83500	6.5	1.3	NORSK HYD
1773.50	SST	COCH	0.7	68.6		9.27	4.5	92700	6.9	1.3	NORSK HYD
1774.50	SST	COCH	0.7	77.7		10.79	15.0	*****	7.3	1.5	NORSK HYD
1775.50	SST	COCH	0.5	40.3		7.74	4.6	77400	6.3	1.2	NORSK HYD
1776.50	SST	COCH	0.7	101.7		13.93	4.9	*****	10.6	1.3	NORSK HYD
1778.50	SST	COCH	0.6	55.7		8.99	4.4	89900	7.1	1.3	NORSK HYD
1779.50	SST	COCH	0.5	51.1		10.03	4.5	*****	8.5	1.2	NORSK HYD
1780.50	SST	COCH	0.7	93.8		12.67	8.2	*****	9.3	1.4	NORSK HYD
1781.50	SST	COCH	0.7	80.6		11.35	4.6	*****	7.0	1.6	NORSK HYD
1782.50	SST	COCH	0.7	68.4		9.50	4.2	95000	7.3	1.3	NORSK HYD
1783.50	SST	COCH	0.7	74.7		10.23	4.9	*****	7.2	1.4	NORSK HYD
1784.50	SST	COCH	0.8	55.2		6.90	5.2	69000	5.6	1.2	NORSK HYD
1788.90	SST	COCH	1.5	57.9		3.84	5.5	38400	3.3	1.2	NORSK HYD
1789.60	SST	COCH	5.5	75.5		1.38	6.1	13800	1.0	1.3	NORSK HYD
1796.60	SST	COCH	8.2	39.3		0.48	12.9	4800	0.5	1.0	NORSK HYD
1797.60	SST	COCH	10.0	41.3		0.41	19.5	4100	0.4	1.1	NORSK HYD
1798.90	SST	COCH	1.2	61.3		5.03	8.0	50300	4.2	1.2	NORSK HYD
1799.60	SST	COCH	1.0	61.9		6.06	13.3	60600	5.1	1.2	NORSK HYD
1800.60	SST	COCH	9.3	44.0		0.47	12.3	4700	0.5	1.0	NORSK HYD
1801.60	SST	COCH	10.7	39.8		0.37	16.1	3700	0.3	1.1	NORSK HYD
1802.60	SST	COCH	1.0	55.3		5.53	9.6	55400	4.8	1.2	NORSK HYD
1803.60	SST	COCH	0.9	59.1		6.43	7.9	64300	5.8	1.1	NORSK HYD
1804.60	SST	COCH	21.1	48.3		0.23	19.2	2300	0.4	0.5	NORSK HYD
1805.60	SST	COCH	15.4	53.4		0.35	19.5	3500	0.4	0.8	NORSK HYD
1806.90	SST	COCH	0.9	62.1		6.75	12.4	67500	5.3	1.3	NORSK HYD

TABLE: 5.4.2

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HYDRO

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:25/11-16 (cont'd)

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
1807.60	SST	COCH	1.0	77.4		7.59	16.7	75900	5.5	1.4	NORSK HYD
1808.50	SST	COCH	0.8	53.9		6.42	11.1	64200	6.1	1.1	NORSK HYD
1808.55	SST	COCH	18.0	52.0		0.29	15.5	2900	0.3	1.1	NORSK HYD
1809.60	SST	COCH	24.4	68.9		0.28	20.3	2800	0.2	1.3	NORSK HYD
1810.60	SST	COCH	13.6	35.5		0.26	16.8	2600	0.3	1.0	NORSK HYD
1811.60	SST	COCH	1.2	75.7		6.16	15.9	61600	4.2	1.5	NORSK HYD

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Table 6.2.1 Experimental data for impregnation of oil-stained sandstone sample from well 25/11-15, 1764 m, with Aquamul 40/60 mud.

Sample	Rock weight (g)	Amount of added mud (mg)	Amount of added mud (% of initial rock weight)
Sa-0	1.21	0	0
Sa-15	1.27	232	15.5
Sa-29	1.35	519	29.3

Table 6.2.2 Data from extraction and asphaltene precipitation of oil-stained sandstone sample from well 25/11-15, 1764 m, before and after addition of Aquamul 40/60 mud.

Sample	EOM (% of rock wt)	ASP (% of rock wt)	ASP (% of EOM wt)	increase in EOM (% of rock wt)	increase in ASP (% of rock wt)	ASP (% of EOM from mud)
Sa-0 (0% mud)	4	0.22	9.1	-	-	-
Sa-15 (15% mud)	10.8	0.32	4.4	6.8	0.10	1.5
Sa-29 (29% mud)	20.2	0.53	3.0	16.2	0.31	1.9

Table 6.2.3 Data from Iatroscan analysis of total EOM of oil-stained sandstone sample from well 25/11-15, 1764 m, before and after addition of Aquamul 40/60 mud (average of 3 parallel analyses), and of EOM from pure mud.

Sample	SAT (peak area %)	ARO (peak area %)	POL (peak area %)	ASP (peak area %)
Sa-0 (0% mud)	21	18	46	15
Sa-15 (15% mud)	9	55	19	17
Sa-29 (29% mud)	7	67	12	14
EOM from pure mud	0	86	2	12

Table 6.2.4 Saturated hydrocarbon peak ratios for oil-stained sandstone sample from well 25/11-15, 1764 m, before and after addition of Aquamul 40/60 mud.

Sample	Pr/n-C ₁₇	Ph/n-C ₁₈	Pr/Ph	CPI-1	CPI-2	n-C ₁₇ / (n-C ₁₇ + n-C ₂₇)
Sa-0 (0% mud)	0.93	0.80	1.35	1.01	0.80	0.76
Sa-15 (15% mud)	0.92	0.80	1.35	1.10	0.88	0.76
Sa-29 (29% mud)	0.92	0.80	1.38	1.10	0.86	0.78

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Saturated hydrocarbon summary sheets and gas chromatograms (GC-FID)

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