

2. DATA COLLECTION

2.1 Cutting Samples

Four sets of wet samples, one wet canned set for geochemistry and two sets of dried samples were collected.

2.2 Logging Summary

Well 25/8-8S		* Oil Based mud, TD at 2592 m	
		m md rkb	comments
Sperry Sun:			
GR - Resistivity - dir		2583 - 206	
Schlumberger:			
Run 1	AIT-IPL-EPT-GR	2584-1046	
Run 2	DSI-UBI-GR	2587-2125	lost power at 2125
Run 3	MDT-GR	2237.8	lost telemetry
Run 4	MDT-GR	2260-2237.5	pressure and 9 samples attempted, 7 recovered, 2 gas, 5 oil, cable broke, fishing
Read:			
Run 5	VSP	2505-480	
Schlumberger:			
Run 6	DSI-GR	2285-1046	
Run 7	MDT-GR	2463-2237.5	pressure, attempted 1 sample, none taken
Run 8	CST-GR	2555-1175	shot 60 (rec. 51)
Run 9	Cement Bond Log	2539-1500	
Run 10	Production Log	2300-2256	

* "Safemul"

4.3 PVT Analysis of DST Samples

Four bottomhole samples were taken during DST #1 and three bottomhole samples were taken from the lower sand during DST #1A. All seven samplers were 600 cc monophasic oil samplers and all contained oil. Samples no. 0091-AA from DST #1 and 0093-AA from DST #1A were chosen for PVT analyses.

Table 4.3 PVT Analysis of DST #1 Bottom Hole Samples

		DST #1 bottomhole oil sample 0091-AA	DST #1 bottomhole oil sample 0140-AA	DST #1A bottomhole oil sample 0093-AA
Gas-oil ratio	Sm ³ /Sm ³	94.3	95.9	87.6
Oil density @ standard conditions	kg/m ³	849.5	N/A	N/A
Oil density @ 15°C	kg/m ³	853.6	853.6	853.5
Bubble point @ 82°C	bara	161	N/A	N/A
Viscosity @ bubble point	cP	0.697	N/A	N/A
Bo at bubblepoint	m ³ /Sm ³	1.30	N/A	N/A
Molecular Weight of dead oil (flash)		213	213	213
Gas gravity	(air=1)	0.861	0.861	0.855

Full details of the study can be found in a separate report by GeoQuest: "25/8-8S, DST#1 Transfer, Drainage and PVT Analysis".

4.4 PVT Analysis of MDT Samples

Reservoir pressure and fluid samples were retrieved with the MDT tool. A total of 9 fluid samples were taken, but only 7 contained fluids. Gas sample no. MDT0173 at 2244.2 m md rkb and oil sample no. MDT0190 at 2260.0 m md rkb were analysed and the results are summarized in Table 4.4.

Table 4.4 PVT Analysis of MDT Samples

		Gas Sample 2244.2 m md rkb	Oil Sample 2260.0 m md rkb
Gas-oil or gas-condensate ratio	Sm ³ /Sm ³	33600	89.6
Oil or condensate density @ 15°C	kg/m ³	750	853.9
Molecular Weight of dead oil or condensate		213	214
Gas gravity	(air=1)	0.855	0.863

Full details of the study can be found in a separate report by GeoQuest: "25/8-8S, MDT Transfer, Drainage and PVT Analysis".

7. DRILL STEM TESTING

The well was perforated over the interval 2258-2267 m md rkb (2068.0-2075.6 m tvd ss) with TCP guns and opened for an initial flow of 6 minutes. A subsequent pressure buildup of one hour took place to estimate the initial reservoir pressure. Initial reservoir pressure was estimated to 2842.0 psia at gauge depth of 2191.5 m md rkb (2012.1 m tvd ss).

A 24 hour main flow period followed with a maximum rate of 5000 STB/D. Due to continuous sand production above 1% for several minutes at this rate the well was choked back to 3950 STB/D for the last 12 hours (Fig. 7.2). During the stabilised flow period these measurements were taken:

Oil Rate:	3950 STB/D
Choke:	44/64"
Drawdown:	141 psi
PI:	28 STB/D/psi
Flowing GOR:	±400 Scf/STB
Oil density:	34.5°API @ 25°C
Gas gravity:	0.73
WHP:	715 psia
WHT:	90°F
Sand:	Traces (±1% at 5000 STB/D)

Preliminary analysis of the pressure buildup data shows a permeability-thickness of about 18400 md-ft. (Figs. 7.3 and 7.4). Using the full reservoir thickness to estimate permeability results in a value of 950 md. PLT logging done later in the test program showed that the very top 2-3 m md of the perforation is by far the main contributor to flow (Fig. 7.5). Core permeability in this interval average about 3.5 Darcy. A no-flow boundary approximately 200 m away from the well, probably a fault, can be identified from the late buildup data. Such a fault can be seen on seismic about 200 m northwest of the well. The very late buildup data indicates pressure support from the rest of the field and there is no evidence of depletion.

Two attempts to open a lower sand with Schlumberger's pivot guns run on wireline failed and the interval 2275-2279 m md rkb (2082.2-2085.6 m tvd ss) was eventually perforated with 1 11/16" Enerjet guns. The objective of adding this perforation was to get a representative oil sample from this zone. A Schlumberger PLT log was run while the well was flowing to verify that the lower perforation was contributing. Unfortunately, sand in the wellbore/test string blocked the spinner on the PLT tool but temperature and gradiometer data confirmed flow from the lower perforation but that most flow came from the upper few meters of the original perforation (Fig. 7.5). A static oil-water interphase inside the well was encountered approximately three meters from the top of the upper perforation and this interphase was moving very slowly down while flowing the well. Maximum flowrate during PLT sampling was 5200 STB/D

with only traces of sand produced at surface. Flow rates and bottom hole pressure from the PLT logging, max-rate test and bottom hole sampling are given in Figure 7.6.

It was decided to do a max-rate test before commencing any bottomhole sampling hoping that the extra drawdown from flowing the well at maximum rate would remove the water above the lower perforation. Some sand production was observed at about 6000 STB/D but after a short peak production no further sand production was evident at higher rates. Data from the maximum stable rate was:

Oil Rate:	6700 STB/D
Choke:	128/64" (separator constraint)
Drawdown:	184 psi
PI:	36 STB/D/psi
Flowing GOR:	±400 Scf/STB
Oil density:	34.5° API @ 25°C
Gas gravity:	0.73
WHP:	530 psia
WHT:	90°F
Sand:	Traces

MDT SAMPLING SUMMARY
25/8-8S

Sample Chronology	Depth (m md rbk)	Depth (tvd ss)	OFA prior to sampling	Chamber filling time	Comments
RUN 1:					
Planned gas	2238.7	2051.8	gas on OFA	No sample taken	
Planned lowest gas	2244.2	2056.4	gas on OFA	Sample chamber 1 gal, 2x450 cc	1 gas gas, 1x450 cc OK, 1x450 cc failed to open
Planned lowest gas	2245.0	2057.1	gas on OFA	No sample taken	
Planned oil	2260.0	2069.7	oil on OFA	2.75 gal	Lost seal during sampling, sample contaminated
Planned oil	2260.0	2069.7	oil on OFA	2x1 gal, 4x450 cc	2x1 gal oil, 1x450 cc OK, 3x450 cc empty or with trace of oil

After acquiring samples at 2260.0 m md, attempted to move the tool and the wireline cable was apparently stuck. The cable was worked up and down in an attempt to free. The cable frayed (possibly at the casing shoe) and broke. The MDT tool (with samples) was left in the hole with approximately 1000 m+ of cable. After lengthy fishing operations the tool with samples was recovered.

RUN 2:					
Planned lowest oil	2283.3	2089.2	-	Attempted segregated sample	No sample, chamber filled slowly, retraced probe tool was stuck, got free

PVT Samples Overview

Well	Source	Depth (m)		Chamber		Content	Pop. (bara)	Transferred to bottle no.	Pb@-20°C (bara)
		MD RKB	TVD SS	No.	Size				
25/8-8S	MDT	2244.2	2056.5	0086	450 cc	empty, tr.of gas	-	-	-
25/8-8S	MDT	2244.2	2056.5	0173	450 cc	gas	TS-5606	TS-5606	N/A
25/8-8S	MDT	2244.2	2056.5	BB013	1 gal	gas	TS-0822	TS-0822	N/A
25/8-8S	MDT	2244.2	2056.5	BB013	1 gal	gas	TS-5612	TS-5612	N/A
25/8-8S	MDT	2260.0	2069.7	0166	450 cc	empty, tr.of oil	-	-	-
25/8-8S	MDT	2260.0	2069.7	0190	450 cc	oil	100	TS-5009	117.5
25/8-8S	MDT	2260.0	2069.7	0073	450 cc	empty	140	-	-
25/8-8S	MDT	2260.0	2069.7	0168	450 cc	empty, tr.of oil	-	-	-
25/8-8S	MDT	2260.0	2069.7	BB033	1 gal	oil	90	TS-11101	112.0
25/8-8S	MDT	2260.0	2069.7	BB033	1 gal	oil	90	TS-10313	112.5
25/8-8S	MDT	2260.0	2069.7	BB067	1 gal	oil	90	TS-5705	114.0
25/8-8S	MDT	2260.0	2069.7	BB067	1 gal	oil	90	TS-8818	114.0

Note: *Pop.* = Opening pressure
 Pb@-20°C = Bubblepoint pressure at room temperature

ESSO NORGE A/S

WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA

WELL: 25/8-8S
 KB ELEVATION AMSL: 25.0m
 WATER DEPTH: 126.5m

GEOLOGIST: RAC/JES
 BIT SIZE: 8.5"
 DATE: 11 sep 95

RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
		BARS	SGE*		BARS	SGE*	BARS	SGE*										
2	1	2237,5	2050,8	QUARTZ psia	299,80	1,49	199,63	0,99						299,55	1,49		M=205.8 Good K	V
				STRAIN psig														
2	2	2238,7	2051,8	QUARTZ psia	299,60	1,49	199,7	0,99						299,47	1,49		M=182.1 Good K	V
				STRAIN psig														
2	3	2239,1	2052,1	QUARTZ psia	299,47	1,49	199,71	0,99						299,30	1,49		M=149.4 Good K	V
				STRAIN psig														
2	4	2244,1	2056,3	QUARTZ psia	299,98	1,49	200,47	0,99						299,57	1,48		M=101.3 Good K	V
				STRAIN psig														
2	5	2245,0	2057,1	QUARTZ psia	299,76	1,48	199,62	0,99						299,52	1,48		M=6.9, low K	V
				STRAIN psig														
2	6	2244,6	2056,8	QUARTZ psia	299,47	1,48	199,81	0,99						299,29	1,48		M=175.8 Good K	V
				STRAIN psig														
2	7	2248,0	2059,6	QUARTZ psia	299,81	1,48	199,71	0,99						299,53	1,48		M=3, low K	V
				STRAIN psig														
2	8	2258,5	2068,4	QUARTZ psia	301,11	1,48	200,24	0,99						300,24	1,48		M=575.9 V good K	V
				STRAIN psig														
2	9	2259,3	2069,2	QUARTZ psia	300,92	1,48	200,30	0,99						300,72	1,48		M=389.2 Good K	V
				STRAIN psig														
2	10	2260,7	2070,3	QUARTZ psia	300,96	1,48	200,38	0,99						300,76	1,48		M=320.9 Good K	V
				STRAIN psig														
2	11	2261,5	2070,9	QUARTZ psia	300,95	1,48	200,42	0,99						300,77	1,48		M=302.2 Good K	V
				STRAIN psig														
2	12	2265,2	2074,0	QUARTZ psia	301,40	1,48	200,64	0,99						301,25	1,48		M=365.6 Good K	V
				STRAIN psig														
2	13	2265,7	2074,7	QUARTZ psia	301,29	1,48	200,64	0,99						301,19	1,48		M=139.7 Good K	V
				STRAIN psig														
2	14	2277,1	2084,0	QUARTZ psia	302,90	1,48	201,36	0,98						302,72	1,48		M=538.9 V good K	V
				STRAIN psig														

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

*VALIDITY CODE: V=VALID, T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY.

ESSO NORGE A/S				WELL: 25/-1 25/8-8S				GEOLOGIST:		RAC/JES							
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA				KB ELEVATION AMSL: 25.0m				BIT SIZE:		8.5"							
				WATER DEPTH: 126.5m				DATE:		06 sep 95							
RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA				MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP BARS	SGE*	SIP BARS	SGE*	VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP BARS			
1	1	2237,5	2050,8	QUARTZ psia	300,80	1,49	199,60	0,99						#VALUE!		MR=7.2, low K	V
				STRAIN psig													
1	2	2238,7	2051,8	QUARTZ psia	298,80	1,48	199,6	0,99								MR=323, gd K,	V
				STRAIN psig												gas on OFA	
1	3	2242,4	2054,9	QUARTZ psia	298,90	1,48	199,70	0,99								low K, tite	T
				STRAIN psig													
1	4	2244,2	2056,4	QUARTZ psia	298,90	1,48	199,70	0,99	1gal				199,60			M=254, gd K	V
				STRAIN psig					2x450cc, 1 btl failed to open						PO, gas on OFA		
1	5	2245,2	2057,3	QUARTZ psia	298,80	1,48	129,30	0,64								low K, tite	T
				STRAIN psig													
1	6	2245,0	2057,1	QUARTZ psia	298,40	1,48	199,70	0,99								M=508, gd K	V
				STRAIN psig												gas on OFA	
1	7	2248,1	2059,7	QUARTZ psia	298,90	1,48	199,80	0,99								M=5.5, low K	V
				STRAIN psig												no smpl ret	
1	8	2249,2	2060,6	QUARTZ psia	298,90	1,48	128,60	0,64								low K, tite	T
				STRAIN psig													
1	9	2254,1	2064,7	QUARTZ psia	299,60	1,48	200,00	0,99								M=6.6, low K	T
				STRAIN psig													
1	10	2259,0	2068,8	QUARTZ psia	300,10	1,48	200,20	0,99								M=113, gd K	V
				STRAIN psig													
1	11	2260,0	2069,7	QUARTZ psia	300,20	1,48	200,30	0,99	2.75 gal, lost seal, smpl contam w/ mud						M= 812, vgd K,	SF	
				STRAIN psig											oil on OFA		
1	12	2260,0	2069,7	QUARTZ psia	300,20	1,48	200,30	0,99	2x1gal				199,70			Oil on OFA	V
				STRAIN psig					4x450cc, poss 1 btl failed to open								

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

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ESSO NORGE A/S

WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA

WELL: 25/8-8S
 KB ELEVATION AMSL: 25.0m
 WATER DEPTH: 126.5m

GEOLOGIST: RAC/JES
 BIT SIZE: 8.5"
 DATE: 11 sep 95

RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
		BARS	SGE*		BARS	SGE*	BARS	SGE*										
2	15	2278,0	2084,7	QUARTZ psia	302,75	1,48	201,42	0,98						302,67	1,48		M=330.0 Good K	V
				STRAIN psig														
2	16	2283,3	2089,2	QUARTZ psia	303,36	1,48	201,8	0,98	Attempted segregated sample, chmbr filling slwly, retract probe, tool stuck, no smpl					302,70	1,48		M=233.2 Good K	V
				STRAIN psig														
2	17	2285,0	2090,6	QUARTZ psia	303,29	1,48	201,92	0,98						302,27	1,47		M=311.4 Good K	V
				STRAIN psig														
2	18	2286,3	2091,7	QUARTZ psia	303,36	1,48	202,02	0,98						303,29	1,48		M=404.4 Good K	V
				STRAIN psig														
2	19	2287,8	2092,9	QUARTZ psia	303,49	1,48	8,74	0,04						303,42	1,48		Very tite	T
				STRAIN psig														
2	20	2287,3	2092,5	QUARTZ psia	303,32	1,48	202,10	0,98						303,27	1,48		M=200.6 Good K	V
				STRAIN psig														
2	21	2348,3	2143,2	QUARTZ psia	311,96	1,48	209,25	0,99						311,83	1,48		M=31.4 Low K	V
				STRAIN psig														
2	22	2349,2	2144,0	QUARTZ psia	311,82	1,48	209,38	0,99						311,71	1,48		M=51.4 Low K	V
				STRAIN psig														
2	23	2372,2	2163,0	QUARTZ psia	314,95	1,48	211,34	1,00						314,71	1,48		M=73.9 Low-fair K	V
				STRAIN psig														
2	24	2438,3	2217,4	QUARTZ psia	323,44	1,49	216,96	1,00						323,22	1,48		M=16.9 Low K	V
				STRAIN psig														
2	25	2457,5	2233,1	QUARTZ psia	325,83	1,49	218,55	1,00						325,58	1,49		M=36.3 Low K	V
				STRAIN psig														
2	26	2463,3	2237,8	QUARTZ psia	326,30	1,49	219,01	1,00						326,02	1,48		M=41.0 Low K	V
				STRAIN psig														
2	27	2293,5	2097,7	QUARTZ psia	304,02	1,48	2,80	0,01						304,02	1,48		Very tite	T
				STRAIN psig														
2	28	2243,9	2056,2	QUARTZ psia	298,08	1,48	199,68	0,99						298,15	1,48		M=700.8 Very good K	V
				STRAIN psig														

GENERAL COMMENTS:

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ESSO NORGE A/S
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA

WELL: 25/8-8S
 KB ELEVATION AMSL: 25.0m
 WATER DEPTH: 126.5m

GEOLOGIST: RAC/JES
 BIT SIZE: 8.5"
 DATE: 11 sep 95

RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
					BARS	SGE*	BARS	SGE*						BARS	SGE*			
2	29	2372,5	2163,3	QUARTZ psia	316,12	1,49	211,39	1,00						315,91	1,49		M=43.4	V
				STRAIN psig													Low K	
2	30	2292,4	2096,8	QUARTZ psia	303,67	1,48	202,6	0,98						303,75	1,48		M=636.2	V
				STRAIN psig													Very good K	
2	31	2293,6	2097,8	QUARTZ psia	303,99	1,48	15,29	0,07						303,98	1,48		Very tite	T
				STRAIN psig														
				QUARTZ psia														
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				QUARTZ psia														
				STRAIN psig														

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

*VALIDITY CODE: V=VALID, T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY.

25/8-8S

CASING DATA				
BIT SIZE	INTERVAL	CASING	SHOE DEPTH	MUD SYSTEM
36"	157 - 213	30"	211	Seawater
17 1/2"	213 - 1058	13 3/8"	1046.5	Seawater
8 1/2"	1058 - 2592	7"	2572	Safemul OBM

25/8-8A

CASING DATA				
BIT SIZE	INTERVAL (m MORKB)	CASING	SHOE DEPTH (m MORKB)	MUD SYSTEM
36"	157 - 213	30"	211	Seawater
17 1/2"	213 - 1058	13 3/8"	1046	Seawater
8 1/2"	1058 - 2601.3	None Set		Safemul OBM

25/8-8B mud:

Oil based mud from
kick-off to TD

4.3 MDT Pressures and Samples

Reservoir pressure and fluid samples were collected with the MDT tool. A total of 9 fluid samples were attempted, 5 were successful, 2 were empty with traces of fluids and 2 were empty. Oil samples no. TS-10911 from 2453.0 m md rkb (2060.7 m tvd ss) and TS-11416 from 2457.7 m md rkb (2063.8 m tvd ss) were analysed and the results are summarized in Table 4.3. Data from TS-10911 are considered to be most representative.

Table 4.3 PVT analysis of MDT samples

		Oil Sample TS-10911	Oil Sample TS-11416
Gas-oil ratio	Sm^3/Sm^3	115.8	91.2
Oil density @ 15°C	kg/m^3	847.7	844.0
Molecular Weight of dead oil		210	216
Gas gravity	(air=1)	0.849	0.869

Full details of the study can be found in a separate report by GeoQuest: "25/8-8A, MDT Transfer, drainage and PVT analysis".

MDT SAMPLING SUMMARY 25/8-8A

Sample Chronology	Depth (m md rkb)	Depth (m tvd ss)	OFA prior to sampling	Chamber filling	Results
<u>Run 4:</u>					
Planned oil	2453.00	2085.7	oil on OFA	1x1 gal, partial lost seal 1x450 cc, entry valve sticking	1 gal oil 1x450 cc empty w/ trace of oil
Planned oil	2457.8	2088.9	oil on OFA	1x1 gal, partial lost seal	1 gal oil
Planned oil	2516.6	2127.8	80-90% water	2x450 cc, valve problems	2x450 cc, chambers empty
Planned OFA check	2503.0	2119.4	75% water on OFA	None	
Planned gas	2430.0	2070.1	100% gas on OFA	1x1 gal 1x450 cc	1 gal gas 1x450 cc gas
Planned gas	2445.6	2080.8	100% gas on OFA	2x450 cc, partly filled	1x450 cc gas 1x450 cc empty w/ trace of gas

Elli Area

PVT Samples Overview

Well	Source	Depth (m)		Chamber		Content	Pop. (bara)	Transferred to bottle no.	Pb@~20°C (bara)
		md rkb	tvd ss	no.	size				
2578-8A	MDT	2430.0		AA80012	1 gal	gas	140	TS-11612	N/A
2578-8A	MDT	2430.0		AA80012	1 gal	gas	140	TS-10801	N/A
2578-8A	MDT	2430.0		AA168	450 cc	gas	180	TS-10802	N/A
2578-8A	MDT	2445.6		AA173	450 cc	gas	140	TS-11020	N/A
2578-8A	MDT	2445.6		AA190	450 cc	empty, tr. of gas	<50	-	
2578-8A	MDT	2453.0		AA73	450 cc	empty, tr. of oil	<50	-	
2578-8A	MDT	2453.0		BB11	1 gal	oil	110	TS-10604	154
2578-8A	MDT	2453.0		BB11	1 gal	oil	110	TS-10911	133
2578-8A	MDT	2457.8		BB67	1 gal	oil	110	TS-11510	106
2578-8A	MDT	2457.8		BB67	1 gal	oil	110	TS-11416	109
2578-8A	MDT	2516.6		AA086	450 cc	empty	-	-	
2578-8A	MDT	2516.6		AA166	450 cc	empty	-	-	

Note: "Pop." = Opening pressure
Pb@~20°C = Bubblepoint pressure at room temperature

ESSO NORGE A/S WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA									WELL 2578-8A KB ELEVATION AMSL 25.0 M WATER DEPTH 126.5 M		GEOLOGIST BIT SIZE 8.5" DATE 07 Oct 95		WOMACK / LEDJE					
RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC
		RKB MD	TVD RKB		IHP	SIP	VOL	MAX DD	FINAL FP	TIME MIN	PSIP	FHP	SGE*					
					BARS	SGE*	BARS	SGE*						BARS	SGE*			
1	1	2426,43	2067,76	QUARTZ psia STRAIN psig	311,93	1,54	202,34	1,01						311,45	1,53		252.21 md/cp	V
1	2	2429,81	2070,05	QUARTZ psia STRAIN psig	312,15	1,54	202,31	1,01						311,6	1,53		41.64 md/cp	V
2	3	2426,40	2067,74	QUARTZ psia STRAIN psig	312,51	1,54	202,45	1,01						312,15	1,54		Schlumb reported sc, 0.26 md/cp	V
2	4	2426,80	2068,01	QUARTZ psia STRAIN psig	311,96	1,54	189,87	0,95						311,85	1,54		Abandoned tight test	T
2	5	2429,60	2069,90	QUARTZ psia STRAIN psig	312,30	1,54	202,19	1,01						311,93	1,53		19.72 md/cp	V
2	6	2430,55	2070,52	QUARTZ psia STRAIN psig	312,27	1,54	203,26	1,01						311,81	1,53		Possible SC 0.15 md/cp	SC
2	7	2430,20	2070,32	QUARTZ psia STRAIN psig	312,63	1,54	202,19	1,01						312,18	1,54		117.32 md/cp	V
2	8	2431,46	2071,17	QUARTZ psia STRAIN psig	312,37	1,54	184,32	0,92						312,20	1,54		Abandoned tight test	V
2	9	2435,15	2073,67	QUARTZ psia STRAIN psig	312,69	1,54	202,31	1,01						312,47	1,53		7.56 md/cp	V
2	10	2445,57	2080,73	QUARTZ psia STRAIN psig	313,95	1,54	174,45	0,86						313,71	1,54		Abandoned tight test	T
2	11	2448,56	2082,77	QUARTZ psia STRAIN psig	314,05	1,54	209,53	1,04						313,72	1,53		Abandoned tight test, 0.13 md/cp	T
2	12	2452,85	2085,59	QUARTZ psia STRAIN psig	314,35	1,54	202,50	1,00						313,95	1,53		508.78 md/cp	V
2	13	2457,66	2088,81	QUARTZ psia STRAIN psig	314,58	1,53	202,73	1,00						314,39	1,53		22.30 md/cp	V

GENERAL COMMENTS.
M=mobility ratio (md/cp), qualitative measurement of permeability
*VALIDITY CODE. V=VALID T=TIGHT SC=SUPERCHARGED SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY

ESSO NORGE A/S WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA									WELL 25/8-8A (RUN 4 TLC)				GEOLOGIST: WOMACK/LEDIE					
									KB ELEVATION AMSL 25.0 M		BIT SIZE 8.5"							
									WATER DEPTH 126.5 M		DATE 07 Oct 95							
RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*		
		RKB MD	TVD RKB		IHP	SGE*	SIP	SGE*	VOL	MAX DD	FINAL EP	TIME MIN	PSIP				FHP	SGE*
		BARS	SGE*	BARS	SGE*													
2	14	2461.57	2091.43	QUARTZ psia	314.93	1.53	192.83	0.95						314.72	1.53		Tight	T
				STRAIN psig														
2	15	2476.06	2101.13	QUARTZ psia	316.77	1.54	150.75	0.74						316.55	1.53		Tight, probe	T
				STRAIN psig													plugging, abandon	
2	16	2475.55	2100.79	QUARTZ psia	316.37	1.53	168.66	0.83						168.66	0.82		Partial probe	I
				STRAIN psig													plugging-abandon	
2	17	2557.00	2154.19	QUARTZ psia	325.66	1.54	208.54	1.00						325.34	1.54		179.08 md/cp	V
				STRAIN psig														
2	18	2560.07	2156.20	QUARTZ psia	325.62	1.54	144.17	0.69						325.39	1.54		Probe plugged,	I
				STRAIN psig													abandon pretest	
2	19	2563.57	2158.48	QUARTZ psia	325.79	1.54	157.05	0.75						325.65	1.54		Probe plugged,	
				STRAIN psig													abandon pretest	
3	20	2576.08	2166.64	QUARTZ psia	327.04	1.54	209.87	1.00						326.85	1.54		195.07 md/cp	V
				STRAIN psig														
3	21	2572.03	2163.98	QUARTZ psia	326.17	1.54	209.58	1.00						325.95	1.53		422.66 md/cp	V
				STRAIN psig														
3	22	2567.55	2161.08	QUARTZ psia	325.40	1.53	1.61	0.01						306.78	1.45		Tight test, plugging	T
				STRAIN psig														
3	23	2563.56	2158.47	QUARTZ psia	308.81	1.46	208.97	1.00						324.74	1.53		537.10 md/cp	V
				STRAIN psig														
				QUARTZ psia													1206.38 md/cp	
3	24	2560.02	2156.17	STRAIN psig	324.33	1.53	208.81	1.00						324.0	1.53		CQG Plugged	V
4	25	2453.00	2085.69	QUARTZ psia	317.74	1.55	202.47	1.00	1 x 1 Gal	61.6	202.0	7.5	202.12	317.62	1.55	Oil on OFA	Partial lost seal	V
			2085.69	STRAIN psig					450cc PVT	NA	NA	NA	NA	317.6	1.55		Smpl valve failed	
4	26	2457.50	2088.70	QUARTZ psia	316.99	1.55	153.49	0.76						317.27	1.55		Tight	T
				STRAIN psig														
4	27	2457.75	2088.87	QUARTZ psia	317.93	1.55	202.69	1.00	1 x 1 Gal	88.2	201.7	8.0	201.77	317.69	1.55	Oil on OFA	Partial lost seal	V
				STRAIN psig														

GENERAL COMMENTS: 2553.00M 1 Gal chamber suspect lost momentary seal failure. 450cc PVT entry valve sticking - did not open.
2457.75M 1 Gal chamber suspect momentary partial seal failure

*VALIDITY CODE. V=VALID T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY

M=mobility ratio (md/cp), qualitative measurement of permeability

ESSO NORGE A/S										WELL: 25/8-8A (RUN 4 TLC)				GEOLOGIST		WOMACK/LEDIE		
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA										KB ELEVATION AMSL: 25 0 M		BIT SIZE:		8.5"				
										WATER DEPTH: 126 5 M		DATE:		07.oct.95				
RUN NO	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		OFA	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD RKB		IHP BARS	SGE* SCE*	SIF BARS	SGE* SCE*	VOL	MAX DD	FINAL FP	TIME MIN.	RSIP	FHP BARS	SGE* SCE*			
4	28	2461,30	2091,25	QUARTZ psia	317,90	1,55	202,88	1,00						318,02	1,55		Perm to low for sampling	V
				STRAIN psig														
4	29	2476,38	2101,35	QUARTZ psia	319,11	1,55	155,57	0,76						318,99	1,55		Tight	T
				STRAIN psig														
4	30	2475,84	2100,98	QUARTZ psia	319,20	1,55	155,16	0,76						319,09	1,55		Tight	T
				STRAIN psig														
4	31	2484,00	2106,35	QUARTZ psia	319,61	1,55	144,52	0,71						319,61	1,55		Tight	T
				STRAIN psig														
4	32	2491,57	2111,36	QUARTZ psia	319,64	1,54	164,11	0,80						319,64	1,54		Tight	T
				STRAIN psig														
4	33	2491,72	2111,45	QUARTZ psia	319,74	1,54	203,29	0,99						319,64	1,54		Tight	T
				STRAIN psig														
4	34	2495,56	2113,99	QUARTZ psia	319,86	1,54	162,83	0,79						319,75	1,54		Tight	T
				STRAIN psig														
4	35	2503,62	2119,32	QUARTZ psia	319,92	1,54	138,36	0,67						319,78	1,54		Tight	T
				STRAIN psig														
4	36	2503,61	2119,31	QUARTZ psia	320,23	1,54	204,89	1,00						3220,08	15,48		Probe plugging, Low Resis fluid	V
				STRAIN psig														
4	37	2516,62	2127,79	QUARTZ psia	320,52	1,53	206,05	1,00	1x450ccPVT	181,51	205,85	30,1	205,92	320,59	1,53	80-90% Wtr on OFA	Poor flow, Wtr resis=0.06ohm	V
			2127,79	STRAIN psig					1x450ccPVT	187,45	205,93	28,7	205,92	320,59	1,53			
4	38	2503,80	2119,44	QUARTZ psia	320,66	1,54	204,86	1,00						321,23	1,54	75% Wtr on OFA	25% Oil on OFA, wtr resis= 0.07ohm	V
				STRAIN psig														
4	39	2530,53	2119,26	QUARTZ psia	320,50	1,54	204,76	1,00						320,96	1,54		Wireline elect fault, replace cable drum	V
				STRAIN psig														
4	40	2430,01	2070,10	QUARTZ psia	317,00	1,56	202,18	1,01	1x1Gal	137,47	202,11	7,8	202,13	317,12	1,56	100% Gas on OFA	Smpl valve sticks	V
			2070,10	STRAIN psig					1x450ccPVT	200,78	202,15	4,9	202,17	317,12	1,56			
4	41	2445,61	2080,75	QUARTZ psia	318,45	1,56	202,27	1,00	1x450ccPVT	197,68	202,15	2,4	202,24	318,47	1,56	100% Gas on OFA	Cmbr part filled	V
			2080,75	STRAIN psig					1x450ccPVT	202,26	202,27	4,3	202,27	318,47	1,56			

GENERAL COMMENTS. 2516.62M Not positive that sample chamber valve for first chamber opened.
2503.80M Auto reset of back-up pad resulted in probe plugging. Test abandoned.
2430.01M No positive indicator that sample valve sealed.
2445.61M Second PVT bottle does not indicate entirely filled (No detectable drawdown upon opening).

*VALIDITY CODE. V=VALID T=TIGHT SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY

M=mobility ratio (md/cp), qualitative measurement of permeability

MDT SAMPLING SUMMARY 25/8-8B

Sample Chronology	Depth (m md rkb)	Depth (tvd ss)	OFA prior to sampling	Chamber filling	Results
<u>Run 1:</u>					
Planned oil	2401.5	2074.9	oil on OFA	1 gal	1 gal oil recovered
Planned oil	2414.0	2083.9	oil on OFA	2.75 gal, seal problems	no sample
Planned oil	2415.1	2084.7	oil on OFA	4x450 cc, 2 bottles failed	two 450 cc chambers oil two 450 cc chambers w/trace of oil
Planned oil	2424.0	2091.2	oil on OFA	no sample	
Planned oil	2428.6	2094.4	O/W mix on OFA	1 gal	1 gal oil recovered
Planned water	2430.6	2095.8	water on OFA	no sample	
Planned water	2430.6	2095.8	water on OFA	no sample, seal problems	
Planned water	2438.0	2101.2		flowline plugged, no sample	
Planned water	2438.0	2101.2	flowline plugged again	no sample	
Planned water	2438.0	2101.2	water on OFA	2.75 gal, lost seal	2.75 gal water + mud recovered
Planned oil	2387.8	2065.0	oil on OFA	2.75 gal partly filled, 1x450 cc filled 1x450 cc failed	2.75 gal oil + mud one 450 cc chamber with 200 cc oil one 450 cc chamber empty
Planned oil	2414.0	2083.9	oil on OFA	2.75 gal partly filled, 1 gal filled	2.75 gal oil recovered 1 gal oil recovered

PVT Samples Overview

Well	Source	Depth (m)		Chamber		Content	Pop. (bara)	Transferred to bottle no.	Pb@~20°C (bara)
		MD RKB	TVD SS	No.	Size				
25/8-8B	MDT	2387.8	2065.0	4-19	450 cc	oil (200cc)	35	TS - 11508	92
25/8-8B	MDT	2387.8	2065.0	DB012	2.75 gal	oil	25	TS - 10507	80
25/8-8B	MDT	2387.8	2065.0	DB012	2.75 gal	oil+mud	25	TS - 9116	108
25/8-8B	MDT	2401.5	2074.9	BB033	1 gal	oil	100	TS - 10908	104
25/8-8B	MDT	2401.5	2074.9	BB033	1 gal	oil	100	TS - 10907	107
25/8-8B	MDT	2414.0	2083.9	DB024	2.75 gal	oil	30	TS - 10615	105
25/8-8B	MDT	2414.0	2083.9	DB024	2.75 gal	oil	30	TS - 10506	106
25/8-8B	MDT	2414.0	2083.9	BB048	1 gal	oil	90	TS - 10906	87
25/8-8B	MDT	2414.0	2083.9	BB048	1 gal	oil	90	TS - 11019	90
25/8-8B	MDT	2415.1	2084.7	0139	450 cc	oil	95	TS - 10910	95
25/8-8B	MDT	2415.1	2084.7	0061	450 cc	empty, tr.of oil	20	-	
25/8-8B	MDT	2415.1	2084.7	0058	450 cc	empty, tr.of oil	10	-	
25/8-8B	MDT	2415.1	2084.7	0137	450 cc	oil	120	TS - 10701	113.5
25/8-8B	MDT	2428.6	2094.4	BB80012	1 gal	oil	90	TS - 10702	
25/8-8B	MDT	2428.6	2094.4	BB80012	1 gal	oil	90	TS - 10510	
25/8-8B	MDT	2438.0	2101.2	DB046	2.75 gal	water+mud	20	TS - 11214	

Note: "Pop." = Opening pressure
 "Pb@~20°C" = Bubblepoint pressure at room temperature

ESSO NORGE A/S
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA

WELL: 25/-8-8B
 KB ELEVATION AMSL: 25.0m
 WATER DEPTH: 126.5m

GEOLOGIST: RAC/IH
 BIT SIZE: 8.5"
 DATE: 20 Oct '95

RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
		BARS	SGE*		BARS	SGE*	BARS	SGE*										
1	1	2401,5	2074,9	QUARTZ psia STRAIN psig	313,48	1,54	200,71	0,99	1-GAL, CHMBR APPEARED TO FILL							MR=900, VGOOD PERM.	V	
1	2	2403,0	2076,0	QUARTZ psia STRAIN psig	313,74	1,54	200,75	0,98								MR=1012, VGOOD PERM	V	
1	3	2404,5	2077,1	QUARTZ psia STRAIN psig	313,81	1,54	200,81	0,98								MR=1335, GOOD PERM	V	
1	4	2411,0	2081,8	QUARTZ psia STRAIN psig	313,98	1,54	201,15	0,98								MR=2100, VGOOD PERM	V	
1	5	2412,7	2083,0	QUARTZ psia STRAIN psig	314,72	1,54	201,24	0,98								MR=1863, VGOOD PERM	V	
1	6	2414,0	2083,9	QUARTZ psia STRAIN psig	314,79	1,54	201,31	0,98	2.75 GAL, CHMBR NOT FILLED, SEAL PROBLEMS							MR=2145, VGOOD PERM	V	
1	7	2415,5	2085,0	QUARTZ psia STRAIN psig	314,90	1,54	151,00	0,74								TITE TEST	T	
1	8	2415,1	2084,7	QUARTZ psia STRAIN psig	314,95	1,54	201,34	0,98	4X450cc, POSS 2 BTLs FILLED, 2 FAILED							MR=181, FAIR PERM	V	
1	9	2424,0	2091,2	QUARTZ psia STRAIN psig	315,48	1,54	201,82	0,98	PO FOR FLUID ID, OIL BY OFA							MR=488	V	
1	10	2425,5	2092,2	QUARTZ psia STRAIN psig	316,43	1,54	201,89	0,98								MR=438, GOOD PERM	V	
1	11	2428,6	2094,4	QUARTZ psia STRAIN psig	316,69	1,54	202,08	0,98	1-GAL, CHMBR PART FILLED, FINAL PRESS 178 BAR, O/W MIX BY OFA							MR=1629, VGOOD PERM	V	
1	12	2430,0	2095,5	QUARTZ psia STRAIN psig	316,17	1,54	202,18	0,98								MR=955, VGOOD PERM	V	
1	13	2430,6	2095,8	QUARTZ psia STRAIN psig	316,51	1,54	202,22	0,98	PO FOR FLUID ID, WTR BY OFA							MR=202, FAIR PERM	V	
1	14	2430,6	2095,8	QUARTZ psia STRAIN psig	316,41	1,54	202,21	0,98	REPEAT PO FOR FLUID ID, WTR BY OFA							SEAL PROBLEMS, MINIMAL PO	V	

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

VALIDITY CODE: V=VALID, T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY.

ESSO NORGE A/S										WELL: 25/8-8B		GEOLOGIST: RAC/OH						
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA										KB ELEVATION AMSL: 25.0m		BIT SIZE: 8.5"						
										WATER DEPTH: 126.5m		DATE: 20 Oct '95						
RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
		BARS	SGE*		BARS	SGE*	BARS	SGE*										
1	15	2433,4	2097,9	QUARTZ psia	316,94	1,54	202,41	0,98									MR=160, FAIR PERM	V
				STRAIN psig														
1	16	2435,3	2099,2	QUARTZ psia	317,04	1,54	134,20	0,65									TITE TEST	T
				STRAIN psig														
1	17	2438,0	2101,2	QUARTZ psia	317,18	1,54	202,74	0,98	2.75-GAL, PLUGGED WHILE PO, NO									V
				STRAIN psig					SMPL									
1	18	2441,0	2103,4	QUARTZ psia	317,54	1,54	203,02	0,98									MR=40.4, LOW PERM	V
				STRAIN psig														
1	19	2444,2	2105,6	QUARTZ psia	317,78	1,54	203,24	0,98									MR=107, FAIR PERM	V
				STRAIN psig														
1	20	2445,0	2106,3	QUARTZ psia	317,87	1,54	104,00	0,50									TITE TEST	T
				STRAIN psig														
1	21	2438,0	2101,2	QUARTZ psia	316,84	1,54	202,76	0,98	2.75-GAL, FLOWLINE PLUGGED, NO									V
				STRAIN psig					SMPL									
1	22	2438,0	2101,2	QUARTZ psia	316,60	1,53	202,80	0,98	2.75-GAL, LOST SEAL, SMPL CONTAM									V
				STRAIN psig					WITH MUD									
1	23	2396,2	2071,1	QUARTZ psia	311,08	1,53	126,00	0,62									TITE TEST	T
				STRAIN psig														
1	24	2391,5	2067,7	QUARTZ psia	310,44	1,53	200,07	0,99									MR=0.9, TITE	V
				STRAIN psig														
1	25	2391,5	2067,7	QUARTZ psia	310,44	1,53	200,05	0,99										V
				STRAIN psig														
1	26	2387,8	2065,0	QUARTZ psia	310,09	1,53	199,83	0,99	2.75-GAL, LOST SEAL WHILE PO, NO									V
				STRAIN psig					SMPL									
1	27	2387,8	2065,0	QUARTZ psia	310,30	1,53	199,65	0,98	2.75-GAL, PARTIALLY FILLED; 2 X 450cc, 1 BTL									V
				STRAIN psig					FILLED									
1	28	2382,0	2060,8	QUARTZ psia	309,37	1,53	146,00	0,72									TITE TEST	V
				STRAIN psig														

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

*VALIDITY CODE: V=VALID, T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY.

ESSO NORGE A/S
WIRELINE TEST REPORT: OFFSHORE PRESSURE DATA

WELL: 25/-8-8B
 KB ELEVATION AMSL: 25.0m
 WATER DEPTH: 126.5m

GEOLOGIST: RAC/OH
 BIT SIZE: 8.5"
 DATE: 20 Oct '95

RUN NO.	TEST NO.	DEPTH (M)		PRESSURE GAUGE	MUD DATA		PRE-TEST DATA		SAMPLE DATA					MUD DATA		TEMP DF	PERMEABILITY ESTIMATE AND COMMENTS	VC*
		RKB MD	TVD SS		IHP		SIP		VOL	MAX DD	FINAL FP	TIME MIN	FSIP	FHP				
		BARS	SGE*		BARS	SGE*	BARS	SGE*										
1	29	2382,1	2060,9	QUARTZ psia	309,05	1,53	145,00	0,72									TITE TEST	T
				STRAIN psig														
1	30	2414,0	2083,9	QUARTZ psia	313,38	1,53	201,24	0,98	2.75-GAL, PARTLY FILLED IN TEST								GOOD PERM	V
				STRAIN psig					NO. 6; 1-GAL FILLED									
1	31	2382,3	2061,0	QUARTZ psia	307,45	1,52	148,00	0,73									TITE TEST	V
				STRAIN psig														
1				QUARTZ psia														
				STRAIN psig														
1				QUARTZ psia														
				STRAIN psig														
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				STRAIN psig														
1				QUARTZ psia														
				STRAIN psig														

GENERAL COMMENTS:

M=mobility ratio (md/cp), qualitative measurement of permeability

*VALIDITY CODE: V=VALID, T=TIGHT, SC=SUPERCHARGED, SF=SEAL FAILURE, I=INCOMPLETE, SO=SAMPLE ONLY.

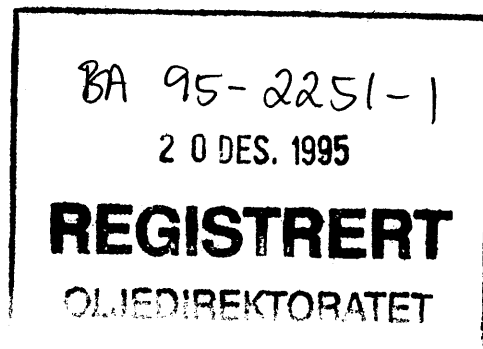
Geochemical Report for

Well NOCS 25/8-8 ⁵

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INTRODUCTION

1.1 General Comments

The well NOCS 25/8-8S, spudded by Esso on 23.08.95 and completed 24.09.95, is located north east of the Balder Field on the east margin of the South Viking Graben. The water depth at the location was 126.5 m and KB elevation 25.0 m. The well reached a T.D of 2592 m in the Upper Jurassic. The well was drilled using an oil-/ester- based mud.

A total of 53 cuttings samples were received from Esso Norge AS, of which 40 were selected for preparation, lithological description and screening analysis by the client. The results of these analyses were used to select samples for follow-up analyses. The main aim of this program was to detect any intervals stained by migrated hydrocarbons. Stratigraphic information was supplied by Esso Norge, this data (Formation Tops as of 25.10.95) being used in this report.

1.2 Analytical Program

<u>Analysis type</u>	<u>No of sample</u>	<u>Figures</u>	<u>Tables</u>
Lithology description	40	1	1
TOC	40	1	1,2
Rock-Eval pyrolysis	40	2,3,4	2
Thermal extraction GC (GHM, S ₁)	4	5	
Pyrolysis GC (GHM, S ₂)	4	6a-b,7	3
Soxhlet Extraction of organic matter	7		4
MPLC/HPLC separation	7		4
Saturated hydrocarbon GC	7	8	5
Vitrinite reflectance	10	9	6
Visual kerogen microscopy	6	10	6,7
Isotope composition C ₁₅₊ fractions	3	11,12	8a-b
GC - MS of saturated and aromatic HC	3	13a-d	9a-d