Esso Norge AS

COMPOSITE LOG 1:500

25/11-23 (E5)

REGIONAL MAP

COUNTRY	:	Norway
FIELD	:	Balder Mound 5
BLOCK	:	25/11
LICENSE	:	PI001
OPERATOR	:	Esso Norge AS
DRILLING PERMIT	:	P951
RIG NAME / TYPE	:	Maersk Jutlander
COMPLETION STATUS	:	Delineation

OBJECTIVE

PRIMARY : Eocene Zone III-2

LOCATION MAP

RIG DATA

SPUD DATE	: 13 May 1999
TD reached	: 23 May 1999
Off location	: 28 May 1999
TOTAL DAYS	: 11
RKB - MSL	: 22.8 m
RKB - SB	: 149.8 m
WATER DEPTH	: 127.0 m
TD (DRILLER)	: 2014.0 m MDRKB (1991.2m TVDSS)
TD (LOGGER)	: 2017.0 m MDRKB (1994.2m TVDSS)

LOCATION DATA

SURFACE LATITUDE	: 59° 14' 07.23" N (6 566 589.8 m N)
SURFACE LONGITUDE	: 02° 21'04.64" E (462 983.2 m E)
SEISMIC LOCATION	: inline 109 BS88-BALDER.
BOTTOM LATITUDE	: 59° 14'07.23" N (6 566 589.8 m N)
BOTTOM LONGITUDE	: 02° 21' 04.64" E (462 983.2 m E)

OPERATOR

Esso Norge AS 100%

CONTRACTORS

DRILLING CONTRACTOR	: MAERSK
MUD LOGGING	: SPERRY SUN
WIRELINE LOGGING	: SCHLUMBERGER
MWD	: SPERRY SUN
VSP	: CGG
CORE ANALYSIS	: RESLAB
BIOSTRATIGRAPHY	: STRATLAB
GEOCHEMISTRY	: N / A

GEOLOGISTS

OPERATIONS : T. Valheim

WELLSITE : D. Marmion, C. Bacchiana

LOG COMPILER

Wellsite Geologist : D. Marmion - C. Bacchiana

DATE : August 1999

Revised by : F. Mediavilla

LITHOSTRATIGRAPHIC TOPS

GROUP	FORMATION	MEMBER	SEQUENCE / CYCLE	DEPTH m MDRKB	DEPTH m TVDSS
Nordland				149,8	127,0
	UTSIRA			538,0	515,2
Hordaland				984,0	961,2
Rogaland		ZONE III-4		1686,3	1663,5
	BALDER	ZONE III-3		1698,5	1675,7
		ZONE III-2		1723,8	1701,0
		L ZONEIII-2MASSIVE SAND		1752,1	1729,3
		L ZONEIII-2 SHALE		1764,0	1741,2
		ZONE III-1		1768,2	1745,4
	SELE	ZONE II SHALE		1779,5	1756,7
	HERMOD	ZONE II MASSIVE SAND		1807,9	1785,1
		ZONE II SHALE		1863,5	1840,7
	LISTA	ZONE IB SHALE		1865,2	1842,4
	HEIMDAL	ZONE IB MASSIVE SAND		1899,9	1877,1
		ZONE IA2 SHALE		1911,8	1889,0
		ZONE IA2 MASSIVE SAND		1945,1	1922,3
Shetland	CHALK			1971,4	1948,6
Statfjord ?	Base Chalk / Jurassic			1975,0	1952,2

WIRELINE LOGGING

DATE	RUN	TOOL SUITE	INTERVAL (m MDRKB)
13/14.05.99	1	DIR - FE	149 - 970
16.05.99	2	DIR	213 - 970
18/20.05.99	3	DIR - FE* (MWD failure)	970 - 1339
20/21.05.99	4	DIR - FE	1339 - 1710
22.05.99	5	DIR - FE	1710 - 2015
23/24.05.99	1A	AITH-IPLT-DSI	930 - 2017
24.05.99	1B	MDT	1695 - 2017
24/25.05.99	1C	VSP (check shot)	538 - 2017

CASING DATA

BIT SIZE	INTERVAL (m MDRKB)	CASING	SHOE DEPTH (m MDRKB)	MUD SYSTEM
9 7/8" pilot hole	149.8 - 970.0	30"	211	SEAWATER
		9 5/8"	951	
36"	149.8 - 211.5			SEAWATER
26"	149.8 - 213.0			SEAWATER
12 1/4"	211.5 - 970.0			SEAWATER
8 1/2"	970.0 - 2014.0			OBM

CONVENTIONAL CORES

CORE	INTERVAL (m MDRKB)	RECOVERY
core #1	1710 - 1747	37,15 m (100%)
core #2	1747 - 1767	18,45m (92,3%

BIOSTRATIGRAPHIC TOPS

SERIES	STAGE	ZONE	DEPTH (m MDRKB)	DEPTH (m TVDSS)

DRILLSTEM TESTS

DST N°	INTERVAL (m MDRKB)	FLOW	CHOKE	WHP	TEST N°	DEPTH (m MDRKB)	FORMATION PRESSURE	SAMPLE TYPE	TOP (m MDRKB)	BOTTOM (m MDRKB)	PLUG TYPE
	No DST's performed										

SIDEWALL CORES

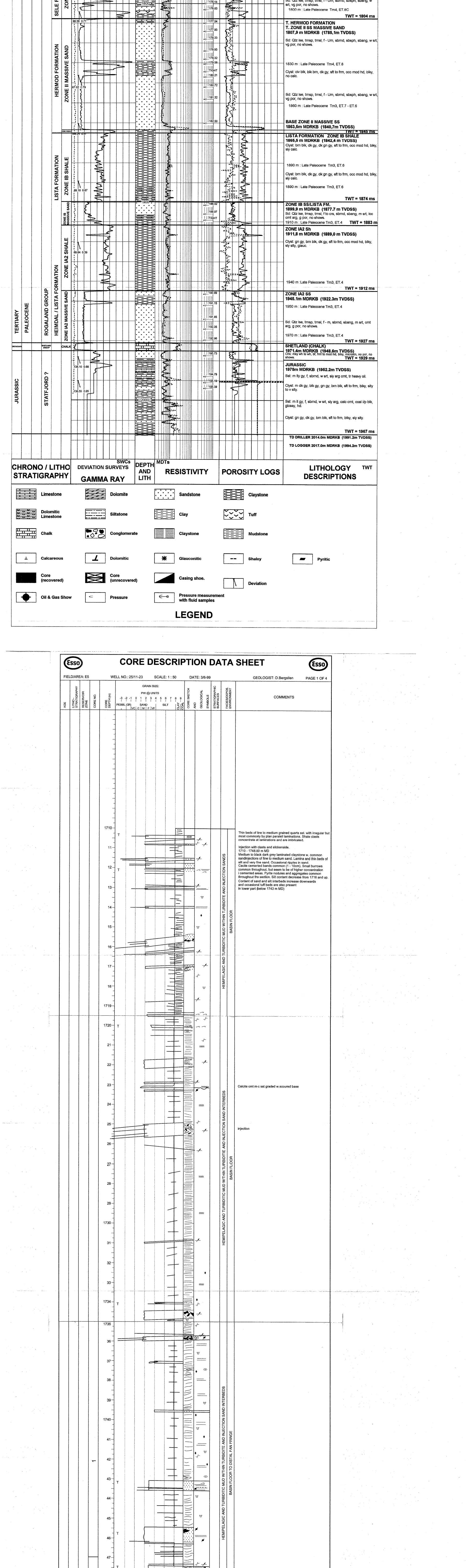
RUN	SHOT	DEPTH (m MDRKB)	RECOVERY (cm)	RUN	SHOT	DEPTH (m MDRKB)	RECOVERY (cm)
		No CST's performed					

MDT DATA

RUN	DEPTH (m MDRKB)	HYDROSTATIC PRESSURE (bar)	FORMATION PRESSURE (bar)	COMMENTS	FORMATION
1B	1695.5	226.11	172.06	Tight	ZIII-4
1B	1697.0	225.60	111.03	Tight	ZIII-4
1B	1697.1	226.07	113.74	Tight	ZIII-4
1B	1697.2	225.81	174.85	0.06	ZIII-4
1B	1705.8	226.90	105.29	Tight	BALDER
1B	1709.5	227.44	123.31	Tight	BALDER
1B	1709.6	227.28	109.73	Tight	BALDER
1B	1709.4	227.14	169.48	240.80	BALDER
1B	1713.9	227.90	137.39	Tight	BALDER
1B	1713.8	227.69	127.04	Tight	BALDER
1B	1753.0	233.42	172.52	289.09	LOWER ZIII-2SS
1B	1745.6	231.73	105.07	Tight	ZIII-2
1B	1754.0	233.27	172.59	358.31	LOWER ZIII-2SS
1B	1755.0	233.25	172.68	253.46	LOWER ZIII-2SS
1B	1756.0	233.28	172.78	476.45	LOWER ZIII-2SS
1B	1757.0	233.35	172.86	342.73	LOWER ZIII-2SS
1B	1758.0	233.44	172.95	453.13	LOWER ZIII-2SS
1B	1759.0	233.53	173.03	587.80	LOWER ZIII-2SS
1B	1760.0	233.61	173.11	460.67	LOWER ZIII-2SS
1B	1761.0	233.69	173.19	477.60	LOWER ZIII-2SS
1B	1762.0	233.80	173.27	472.30	LOWER ZIII-2SS
1B	1763.0	233.93	173.35	458.16	LOWER ZIII-2SS
1B	1765.2	234.25	85.34	Tight	ZIII-1
1B	1771.5	235.42	148.51	Tight	ZIII-1
1B	1775.0	235.92	117.77	Tight	ZIII-1
1B	1778.5	236.40	106.96	Tight	ZIII-1
1B	1788.5	237.86	107.71	Tight	ZIII-1
1B	1793.0	238.34	110.20	Tight	ZIII-1
1B	1797.0	238.76	176.24	418.23	ZIII-1
1B	1800.0	239.12	176.54	181.41	ZIII-1
1B	1803.0	239.47	176.83	514.59	Massive ZII SS
1B	1810.0	240.55	177.54	491.84	Massive ZII SS
1B	1814.0	241.00	177.93	532.67	MAssive ZII SS
1B	1818.0	241.54	178.33	374.49	Massive ZII SS
1B	1824.0	242.40	178.93	1045.77	Massive ZII SS
1B	1828.0	242.86	179.32	504.20	Massive ZII SS
1B	1830.5	243.00	179.56	108.85	Massive ZII SS
1B	1834.5	243.52	150.18	Tight	Massive ZII SS
1B	1837.0	243.81	180.21	1158.75	Massive ZII SS
1B	1842.0	244.57	180.72	1633.67	Massive ZII SS
1B	1848.0	245.45	181.52	1106.11	Massive ZII SS
1B	1854.0	246.15	181.91	357.70	Massive ZII SS
1B	1860.0	247.05	182.50	945.18	ZIB SS
1B	1901.5	252.65	186.52	46.56	ZIB SS
1B	1906.0	252.92	186.97	43.48	ZIB SS
1B	1909.2	253.21	122.20	Tight	ZIA2 SS
1B	1946.5	258.31	190.69	80.57	ZIA2 SS
1B	1952.0	258.80	191.15	934.72	ZIA2 SS
1B	1959.0	259.69	191.85	873.15	ZIA2 SS
1B	1964.0	260.32	192.35	1030.80	ZIA2 SS
1B	1970.0	261.13	192.98	73.12	JURASSIC
1B	1977.5	262.20	193.73	427.80	JURASSIC
1B	1988.0	263.49	194.79	224.61	JURASSIC
1B	1991.0	263.70	195.19	5.48	
1B	1994.0	263.82	195.39	222.05	
1B	1755.0	233.25	172.68	6 x 450cc +1 GAL	LOWER ZIII-2SS

CHRONO / LITHO STRATIGRAPHY | GAMMA RAY | LITHOLOGY | RESISTIVITY | POROSITY LOGS | LITHOLOGY DESCRIPTIONS

CHRONO / LITHO STRATIGRAPHY | GAMMA RAY | RESISTIVITY | POROSITY LOGS | LITHOLOGY DESCRIPTIONS

LEGEND

CORE DESCRIPTION DATA SHEET