

WELL NO : 31/2-3

OPERATOR: SHELL

COORDINATES: 60 DEG. 50' 27.84" N
03 DEG. 35' 10.82" E

SPUD CLASSIFICATION : APPRAISAL
COMPL. CLASSIFICATION: P&A. OIL & GAS DISCOVERY

SEISM. LOC.: 62-4421 SP. 175

FORMATION AT TD : TRIASSIC

LICENSEE : STATOIL/SHELL GR.

PRODUCING FORMATION : MID./UP. JURASSIC

LICENSE NO : 054

TOTAL DEPTH (MSL) : 2576 M

PERMIT NO : 247

WATER DEPTH : 334 M

RIG : BORGNY DOLPHIN

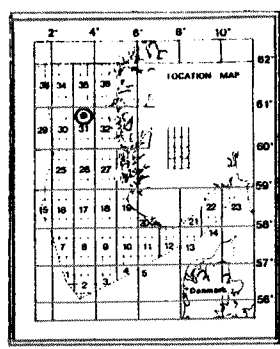
ELEVATION KB : 25 M

CONTRACTOR : DOLPHIN SERVICES A/S

SPUD DATE : 28.03.80

BOTTOM HOLE TEMPERATURE: 73 °C

COMPL. DATE: 20.07.80



REMARKS:

CASINGS AND LEAK-OFF TESTS

TYPE	CASING DIAM. inches	DEPTH BELOW KB m	HOLE DIAM. inches	DEPTH BELOW KB m	L.O.T MUD EQV. g/cm3
CONDUCTOR	30	420	36	425	
SURF. COND.	20	779	26	789	1.43
INTERM.	13 3/8	1328	17 1/2	1339	1.55
INTERM.	9 5/8	1791	12 1/4	1798	1.74
LINER	7		8 1/2	2576	

CONVENTIONAL CORES

CORE NO	INTERVALS CORED m	RECOVERY	
		m	%
1 ¹	1412.0 - 1421.0	8.1	90
2	1421.0 - 1425.0	4.0	100
3	1425.0 - 1443.0	16.9	94
4	1443.0 - 1450.0	6.2	89
5	1450.0 - 1462.0	11.2	93
6	1462.0 - 1462.9	0.7	82
7	1462.9 - 1463.2	0.0	0
8	1463.2 - 1473.0	4.8	49
9	1473.0 - 1484.4	2.1	18
10	1484.4 - 1496.4	12.0	100
11	1496.4 - 1514.5	18.1	100
12	1514.5 - 1533.0	15.2	82
13	1533.0 - 1551.0	7.9	44
14	1551.0 - 1564.5	13.5	100
15	1564.5 - 1566.5	2.0	100
16	1566.5 - 1584.0	17.5	100
17	1584.0 - 1601.5	15.8	90

More core information on next page.

MUD PROPERTIES

DEPTH BELOW KB m	WEIGHT g/cm3	FUNNEL VISC. sec	FILTRATE LOSS cm3	REMARKS
789	1.31	54	7.2	
1339	1.32	60	7.0	
1433	1.28	52	3.8	
1941	1.18	52	4.0	
2267	1.19	48	3.8	

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF/SONIC/GR	445 - 814	X	X
ISF/SONIC/GR	803 - 1368	X	X
ISF/SONIC/GR	1352 - 1821	X	X
ISF/SONIC/GR	1817 - 2593	X	X
BHC/LSS/GR	445 - 814	X	X
LLS	803 - 1364	X	X
BHC/LSS/GR	1352 - 1819	X	X
BHC/SONIC/GR	1817 - 2594	X	X
DLL/MSFL/GR	1352 - 1824	X	X
FDC/CNL/GR	445 - 818	X	X
FDC/CNL/GR	803 - 1367	X	X
FDC/CNL/GR	1352 - 1824	X	X
FDC/CNL/GR	1817 - 2590	X	X
CDM	1352 - 1820	X	
CDM	1817 - 2596	X	
CDM-AP	1424 - 1820	X	X
CDM-AP	1818 - 2595	X	X
CDM-PP	1424 - 1819		
CDM-PP	1817 - 1896		
CBL/VDL/GR	630 - 1352	X	X
CBL/GR	350 - 1816	X	X
RFT	TESTS 1 - 17		
Mud	454 - 2601		X
Velocity	45 - 2593	1:1000	X

DRILL STEM TESTS

TEST NO	FLOW NO	DEPTH BELOW KB	CHOKE SIZE mm	RECOVERY						PRESS. (psi)		
				OIL Sm ³ /day	GAS M Sm ³ /day	OIL GRAV. g/cm ³	GAS GRAV. rel. air	GOR m ³ /m ³	OTHER FLUIDS/REMARKS	FSIP	FFP	
1		1575.5-1580.0								87 liters formation water		
2	1	1552.5-1557.5	3.2	5.9	0.142	0.910	0.691	36			2248	2042
	2		6.4	13.7		0.910		40		Slugging		1615
3	1	1495.0-1510.0	11.1		172.734						2254	1233
	2		50.8		914.391					Possible gas influx through cementation		
4		1410.0-1435.0	38.1		1132.680						2254	1612

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	460 - 2599	620
WET SAMPLES	460 - 2599	620

SHALLOW GAS

DEPTH INTERVAL m KB	REMARKS
	NONE

CONVENTIONAL CORES (CONTINUED)

CORE NO	INTERVALS CORED m	RECOVERY	
		m	%
18	1601.5 - 1619.0	17.5	100
19	1619.0 - 1624.0	4.9	98
20	1624.0 - 1628.0	3.7	93
21	1628.0 - 1645.5	17.5	100
22	2116.0 - 2134.0	18.0	100

¹ NPD does not necessarily have total recovered interval in storage.

GEOLOGICAL TOPS

WELL : 31/2-3

	Depth m (RKB)
Nordland Group	334
Utsira Fm	
Hordaland Group	779
Rogaland Group	1144.5
Balder Fm	1144.5
Sele Fm	1200
Lista Fm	1242
Maureen Fm	1374
Viking Group	1384
Sognefjord Fm	1384
Heather Fm	1508
Fensfjord Fm	1566
Krossfjord Fm	1677
Heather Fm	1735
Brent Group	1820
Ness Fm	1820
Etive Fm	1868
Rannoch Fm	1902
Dunlin Group	1952
Drake Fm	1952
Cook Fm	2009.5
Amundsen Fm	2055
Johansen Fm	2096.5
Amundsen Fm	2155
Statfjord Fm	2235
Hegre Group	2358

TD = 2601