Well no : 6/ 3-02 Operator : STATOIL

Coordinates : 57 54 25.99 N
01 59 14.19 E

UTM coord. : 6418975 N
439982 E

Licence no : 86

Permit no : 492

Rig : ROSS ISLE

Rig type : SEMI-SUB.

Contractor : ROSS DRILLING CO. A/S

Bottom hole temperature : deg.C

Elev. KB : 22 M

Spud. date : 85.11.21

Water depth : 89 M

Compl. date : 86.03.10

Total depth : 4091 M

Spud. class : WILDCAT

Form. at TD : PERMIAN

Compl. class : P&A. DRY HOLE

Prod. form :

Seisloca : 511 - 108 SP. 80

LICENSEES

10.000000	AMERADA HESS NORGE A/S
30.000000	NORSKE CONOCO A/S
10.000000	NORSK HYDRO PRODUKSJON A.S
50.000000	DEN NORSKE STATS OLJESELSKAP A.S

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	222.0	36	222.0	.
SURF.COND.	20	600.0	26	622.0	1.52
INTERM.	13 3/8	1300.0	17 1/2	1316.0	1.53
INTERM.	9 5/8	3375.0	12 1/4	3387.0	.
LINER	7	3722.0	8 1/2	3772.0	2.14
LINER	5	4039.0	6	4091.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery M	Recovery %	Series
1	2794.0 - 2803.5	8.5	89.5	
2	2803.5 - 2831.6	28.1	100.0	UPPER CRETACEOUS
3	2831.0 - 2859.2	28.2	100.0	UPPER CRETACEOUS
4	3042.0 - 3047.0	5.0	100.0	UPPER JURASSIC
5	3049.0 - 3076.5	25.6	93.1	UPPER JURASSIC
6	3077.0 - 3100.0	23.0	97.9	UPPER JURASSIC
7	3100.0 - 3127.5	27.5	100.0	UPPER JURASSIC
8	3127.5 - 3155.0	22.5	81.8	UPPER JURASSIC
9	3155.0 - 3174.5	19.5	100.0	UPPER JURASSIC
10	3174.5 - 3197.5	23.0	100.0	UPPER TRIASSIC
11	4088.0 - 4090.0	2.0	100.0	LOWER PERMIAN

MUD PROPERTIES

Depth below KB meter	Mud weigth g/cm3	Viscosity	Mud type

622.000	1.10	42.0	WATER BASED
760.000	1.13	46.0	WATER BASED
850.000	1.17	44.0	WATER BASED
1316.000	1.20	14.0	WATER BASED
2857.000	1.28	62.0	GYP/POL
2984.000	1.40	62.0	GYP/POL
3320.000	1.63	62.0	OIL BASED
3400.000	1.50	58.0	OIL BASED
3772.000	1.97	70.0	OIL BASED
3772.000	1.99	83.0	OIL BASED
3772.000	2.00	82.0	OIL BASED
3776.000	2.05	59.0	OIL BASED
4040.000	1.80	35.0	OIL BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI) WHP	BTHP	FFP
1.0	3776.000 - 3772.000	31.8	0.0	0.0	0.0

RECOVERY

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1.0	0	0	0.000	0.000	0

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	233-4088	800
Wet Samples	230-4260	510

SHALLOW GAS

Interval below KB	REMARKS

AVAILABLE LOGS

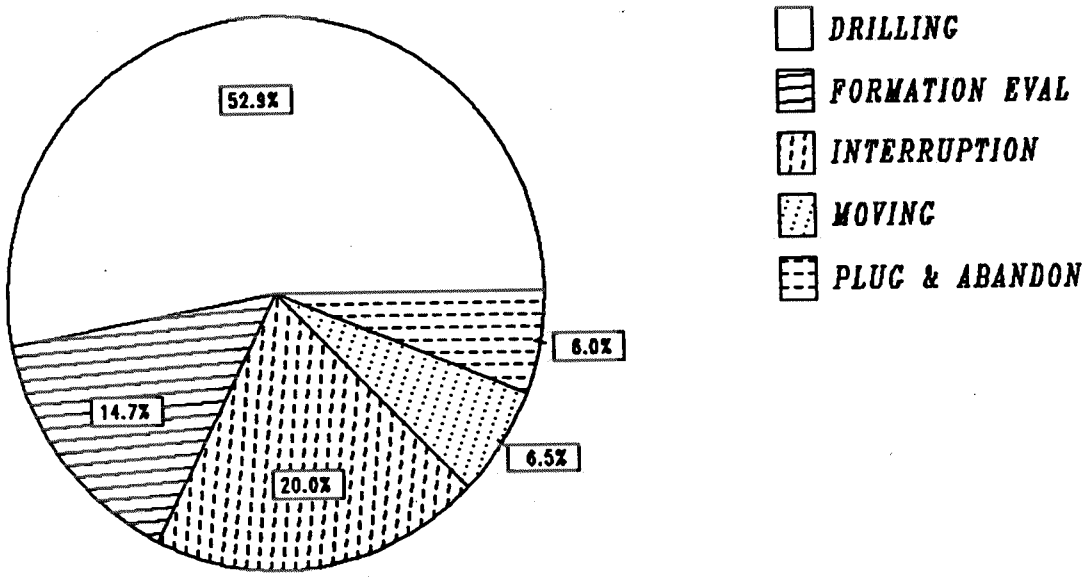
LOG TYPE	INTERVALS	1/200	1/500	Div.
DIFL LS BHC AC GR CA	104.000 - 621.500	X	X	
DIFL LS BHC AC GR CA	599.000 - 1315.500	X	X	
DIFL LS BHC ACL GR	1298.000 - 3383.000	X	X	
DIFL LS BHC ACL GR	3633.000 - 4044.000	X	X	
DIFL BHC ACL GR	4041.000 - 4092.000	X	X	
BHC AC CN	3360.000 - 3772.000	X	X	
ACL CN	3360.000 - 3722.000	X	X	

CDL GR	222.000 - 621.000	X	X
CDL GR	599.000 - 1296.000	X	X
CDL CNL GR	1299.000 - 3386.000	X	X
CDL GR	3709.000 - 4041.000	X	X
CNL GR	4041.000 - 4095.000	X	X
DLL MLL GR	2461.000 - 3324.000	X	
DIPLOG	1299.000 - 3381.000	X	
SPECTRALOG	2950.000 - 3378.000	X	X
FMT	2493.000 - 3264.000		X
FMT HP CRYSTAL GAUGE	2493.000 - 3264.000		X
ACBL VDL	100.000 - 4035.000	X	
DRILL DATA PRESS LOG	200.000 - 3725.000	1:5000	
MUD	222.000 - 4091.000		X
TEMP.DATA LOG	200.000 - 3725.000		
VELOCITY LOG	104.000 - 4092.000	1:1000	

(Display of well velocity 1.Survey records	4 stk.)
(Display of well velocity 2.Survey records	2 stk.)
(Airgun well velocity survey and calibrated log	1 stk.)
(Two-way travel time, 10cm/s	1 stk.)
(Two-way travel time, 20cm/s	1 stk.)
(Synthetic seismogram marine, 20cm/s	1 stk.)
(VSP. 20cm/s	10 stk.)

DAILY DRILLING REPORT SYSTEM

Main operations for well : 0006/03 - 02



Total : 2808.00 hours

Main operation	Minutes	Hours	% of total
DRILLING	89060	1484.33	52.86
FORMATION EVAL	24690	411.50	14.65
INTERRUPTION	33640	560.67	19.97
MOVING	10920	182.00	6.48
PLUG & ABANDON	10170	169.50	6.04

MAIN OPERATIONS FOR WELL : 0006 / 03 - 02

MAIN OPERATION : DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	3800	63.33	4.27
BOP/WELLHEAD EQ	2700	45.00	3.03
CASING	12780	213.00	14.35
CIRC/COND	6310	105.17	7.09
DRILL	30080	501.33	33.77
OTHER	690	11.50	0.77
PRESS DETECTION	1110	18.50	1.25
REAM	3450	57.50	3.87
SURVEY	1380	23.00	1.55
TRIP	25200	420.00	28.30
UNDERREAM	1560	26.00	1.75
Total	89060	1484.33	100.00

MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC SAMPLES	900	15.00	3.65
CIRC/COND	750	12.50	3.04
CORE	5460	91.00	22.11
LOG	7950	132.50	32.20
OTHER	690	11.50	2.79
PROD TEST	1650	27.50	6.68
TRIP	7290	121.50	29.53
Total	24690	411.50	100.00

MAIN OPERATION : INTERRUPTION

Sub operations	Minutes	Hrs	% of total
FISH	9990	166.50	29.70
MAINTAIN/REP	7000	116.67	20.81
OTHER	2670	44.50	7.94
WAIT	6120	102.00	18.19
WELL CONTROL	7860	131.00	23.37
Total	33640	560.67	100.00

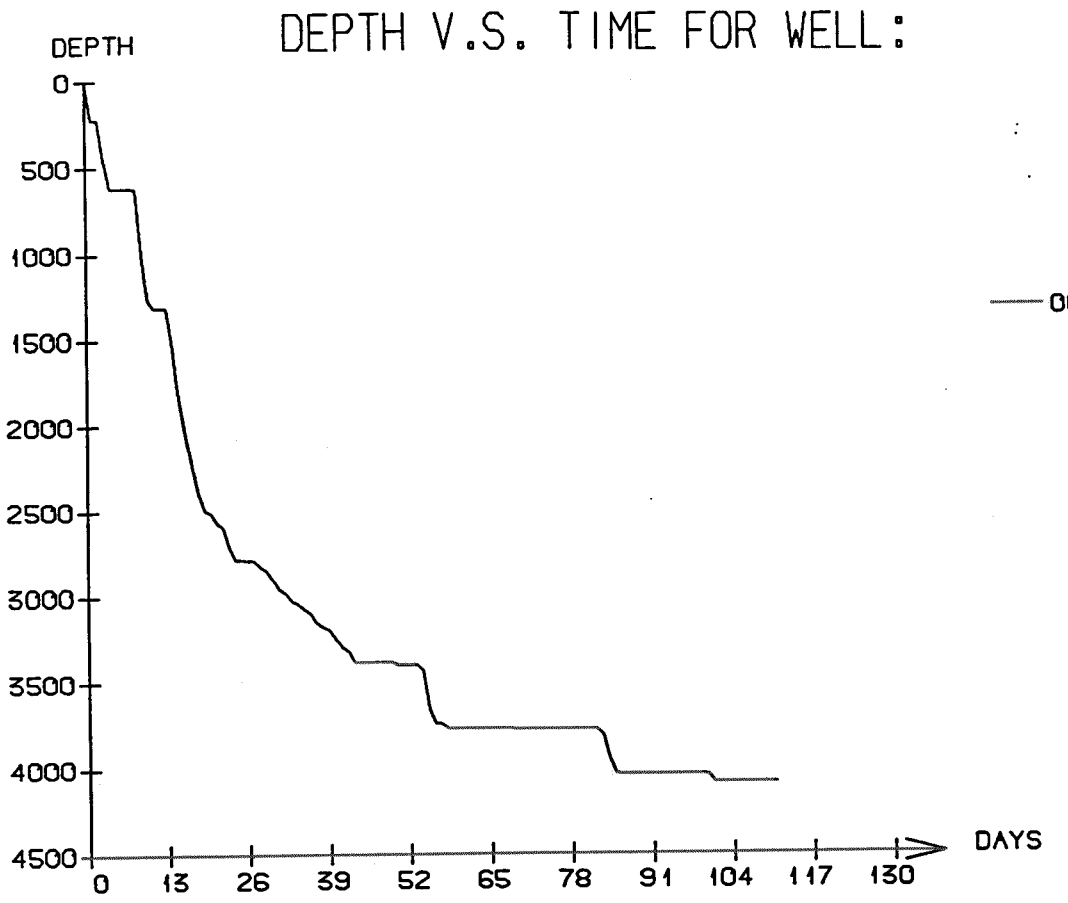
MAIN OPERATION : MOVING

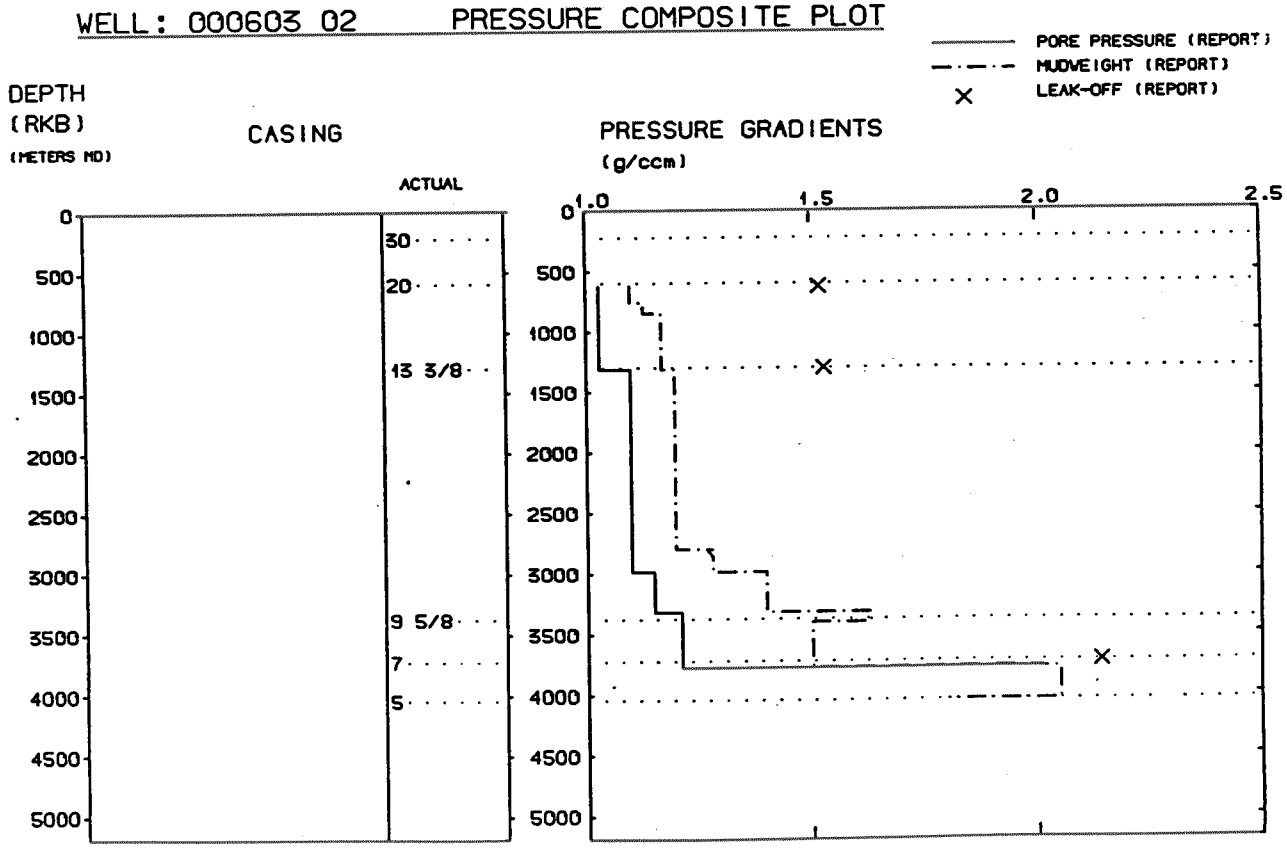
Sub operations	Minutes	Hrs	% of total
ANCHOR	900	15.00	8.24
POSITION	570	9.50	5.22
TRANSIT	9450	157.50	86.54
Total	10920	182.00	100.00

MAIN OPERATION : PLUG & ABANDON

Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	780	13.00	7.67
CIRC/COND	630	10.50	6.19
CUT	540	9.00	5.31
EQUIP RECOVERY	840	14.00	8.26
MECHANICAL PLUG	750	12.50	7.37
OTHER	660	11.00	6.49
PERFORATE	660	11.00	6.49
TRIP	5280	88.00	51.92
WAIT	30	0.50	0.29
Total	10170	169.50	100.00

Total time used 2808.00 hrs


DEPTH V.S. TIME FOR WELL:
DEPTH
0
500
1000
1500
2000
2500
3000
3500
4000
4500
0
13
26
39
52
65
78
91
104
117
130
DAYS
000603 02


WELL: 000603 02 PRESSURE COMPOSITE PLOT
PORE PRESSURE (REPORT)
MUDWEIGHT (REPORT)
LEAK-OFF (REPORT)
DEPTH
(RKB)
(METERS MD)
CASING
ACTUAL
30
20
13 3/8
9 5/8
7
5
PRESSURE GRADIENTS
(g/ccm)
1.0
1.5
2.0
2.5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000

WEll History 6/3-2.

GENERAL:

Well 6/3-2 was drilled in the gamma structure on an early Permian formed fault block, 1.4 km from the Norwegian/UK median line. The primary objectives was to test the Jurassic/ Triassic sandstones at different levels for possible hydrocarbon accumulations.

Secondary objectives were to test Cretageous porous/ fractured limestones/ chalk and Rotliegende sanstone. The prognosed TD: was 4325 m. The location was choosen due to the proximity to mature source rocks and oil/gas discoveries in British waters. Seismic anomalies indicate shallow gas in the area.

OPERATIONS:

Wildcat well 6/3-2 was spudded 21 November 1985 by Ross Offshore A/S semi-submersibel rig Ross Isle, and completed 10 March 1986 at a depth of 4091 m RKB in rocks of Permian age. Drilling proceeded without significant problems, except for some hole problems on top of the 12 1/4" casing section. Due to possible shallow gas problems, the origional planned well location was abandoned and a new location was choosen 500 m to the east. No indication of shallow gas was encountered at this location. Top Cretageous came in at 2530 mRKB, and three cores were cut between 2794- and 2859 m RKB. Poor porosity and permeability, no hydrocarbons produced in well 6/3-2.

Top Jurassic sandstone was encountered at 3038 m RKB, and five cores wre cut in the interval 3042- 3148 m. Fair shows, but only residuals and water was shown by tests. One core was cut in the Rotligende Sst between 4088- and 4091 m RKB.

At 3772 m RKB, an overpressured zone of Dolomit/ Slate was encountered. The well started flowing and pressure was increased to 2.05 g/cc EMV in order to stabilise the well. It was antisipated that one had found a "floating lens" enclosed in the evaporites. The well was plugged and abandoned as a dry well.

TESTING:

No DST-test were performed in this well.

GEOLOGICAL TOPS

WELL: 6/3-2

	Depth m (RKB)
Nordland Group	*111*
Hordaland Group	*1250*
Rogaland Group	*2283*
Balder Fm.	*2283*
Sele Fm.	*2300*
Maureen Fm.	*2489*
Chalk Group	*2511*
Tor Fm.	*2511*
Hod Fm.	*2770*
Cromer Knoll Group	*2987*
Viking Group	*3008*
Draupne Fm.	*3008*
Heather Fm.	*3010*
Vestland Group	*3027*
Ula Fm.	*3027*
Late Triassic/Early Jurassic	*3163*
Late Triassic/Early Jurassic Sst.	*3163*
Triassic Group	*3173*
Zechstein Group	*3293*
Kupferschifer Fm.	*4043*
Rotliegend Group	*4045*
Rotliegend Fm.	*4045*
T.D.	*4091*