GEN. 2/1-84 EGS

0340

A/S NORSKE SHELL

ROUTINE CORE ANALYSIS

WELL: 2/5-7

DATE: DECEMBER 1983

GECO

GEOPHYSICAL COMPANY
OF NORWAY A-S

GECO

A/S NORSKE SHELL

ROUTINE CORE ANALYSIS

WELL: 2/5-7

DATE: DECEMBER 1983

COMPANY : SHELL
WELL : 2/5-7
FIELD : 2/5
STATE : NORWAY

FINAL REPORT

CORE NO.: 1

DATE: DECEMBER 1983

GECO
GEOPHYSICAL COMPANY OF NORWAY A.S
Petroleum laboratory

Plug No.	Depth (meter)	Permeability (mD), horizontal K_a	horizontal K_l	vertical K_a	vertical K_l	Porosity (%) He	Porosity (%) Sum.	Pore saturation S_o	Pore saturation S_w	Grain dens. g/cc	Formation Description
	3303.00										
1	3303.15	0.33	0.25			22.2	2.5	0	21.8	2.73	
2	3303.45	0.30	0.23			20.3				2.72	
3	3303.75	0.35	0.27			20.6				2.71	
4	3304.05	0.39	0.30			21.9	11.0	0	67.2	2.71	
5	3304.35	0.47	0.36			23.6				2.72	
6	3304.65	0.47	0.36			23.4				2.72	
7	3304.95	0.45	0.35			25.4	11.3	0	86.9	2.72	
8	3305.25	0.64	0.49			21.4				2.75	
9	3305.55	0.60	0.46			24.1				2.73	
10	3305.85	npp					6.2	0	50.7		
11	3306.15	npp									
12	3306.45	nmp				20.8				2.72	
13	3306.75	nmp				15.4	18.3	0	86.5	2.71	
14	3307.05	0.69	0.53			23.1				2.70	
15	3307.35	nmp				20.8				2.71	
16	3307.65	npp					19.3	0	89.5		
17	3307.95	0.24	0.18			17.1				2.71	
18	3308.25	0.51	0.40			16.2				2.71	
	3312.00										

COMPANY : SHELL
WELL : 2/5-7
FIELD : 2/5
STATE : NORWAY

FINAL REPORT

CORE NO.: 2

DATE: DECEMBER 1983

GECO
GEOPHYSICAL COMPANY OF NORWAY A/S
Petroleum laboratory

Plug No.	Depth (meter)	Permeability (mD), horizontal K_a	horizontal K_l	vertical K_a	vertical K_l	Porosity (%) He	Porosity (%) Sum.	Pore saturation S_o	Pore saturation S_w	Grain dens. g/cc	Formation Description
	3312.00										
19	3312.10	0.025	0.018			9.5	6.8	0	87.4	2.72	
20	3312.40	0.29	0.22			10.0				2.73	
21	3312.70	0.034	0.025			9.5				2.72	
22	3313.00	0.044	0.032			12.1	6.2	0	90.7	2.72	
23	3313.30	0.021	0.015			8.0				2.72	
24	3313.60	0.58	0.45			24.5				2.72	
25	3313.90	nmp				22.9	3.7	0	69.8	2.73	
26	3314.20	0.32	0.24			23.2				2.72	
27	3314.50	nmp				21.5				2.72	
28	3314.90	0.072	0.054			14.6	11.1	0	87.8	2.72	
29	3315.20	0.13	0.10			16.3				2.72	
30	3315.50	0.54	0.41			20.1				2.72	
31	3315.80	0.28	0.21			21.0	8.7	0	65.4	2.72	
32	3316.10	0.066	0.049			13.8				2.72	
33	3316.40	0.17	0.13			17.2				2.72	
34	3316.70	0.15	0.11			16.6	14.1	0	81.7	2.72	
35	3317.00	0.039	0.028			10.1				2.72	
36	3317.30	0.037	0.027			8.3				2.72	
37	3317.60	0.070	0.052			13.3	15.0	0	84.9	2.72	
38	3317.90	0.40	0.31			15.7				2.72	
39	3318.20	0.16	0.12			15.4				2.72	
40	3318.50	0.15	0.11			17.7	6.5	0	70.4	2.72	
41	3318.80	0.089	0.066			15.3				2.72	
42	3319.10	0.046	0.034			14.6				2.72	
43	3319.40	0.033	0.024			12.3	8.4	0	85.9	2.72	
44	3319.70	0.032	0.023			11.1				2.72	
45	3320.00	0.20	0.15			18.2				2.72	
46	3320.30	0.25	0.19			18.7	6.8	0	55.3	2.72	
47	3320.60	0.120	0.089			18.9				2.72	
48	3321.00	0.20	0.15			19.2				2.72	
	3326.50										

COMPANY : SHELL
WELL : 2/5-7
FIELD : 2/5
STATE : NORWAY

FINAL REPORT

CORE NO.: 3

DATE: DECEMBER 1983

GECO
GEOPHYSICAL COMPANY OF NORWAY A-S
Petroleum laboratory

Plug No.	Depth (meter)	Permeability (mD), horizontal K_a	horizontal K_l	vertical K_a	vertical K_l	Porosity (%) He	Porosity (%) Sum.	Pore saturation S_o	Pore saturation S_w	Grain dens. g/cc	Formation Description
	3326.50										
49	3326.50	0.98	0.76			26.5	21.4	0	88.6	2.73	
50	3326.80	1.3	0.99			28.5				2.73	
51	3327.10	1.2	0.92			27.9				2.72	
52	3327.50	0.25	0.19			18.1	13.7	0	44.1	2.72	
53	3327.80	nmp				21.4				2.72	
54	3328.10	0.83	0.64			25.0				2.72	
55	3328.40	nmp				30.5	26.1	0	90.7	2.72	
56	3328.70	0.51	0.39			22.8				2.72	
57	3329.00	nmp				nmp					
58	3329.30	0.80	0.62			24.8	19.7	0	91.2	2.72	
59	3329.60	0.21	0.16			15.2				2.72	
60	3329.90	npp									
61	3330.20	nmp				21.1	6.8	0	63.3	2.72	
62	3330.50	1.1	0.86			25.8				2.72	
63	3330.80	nmp				27.6				2.72	
64	3331.10	0.52	0.40			23.7	23.4	0	74.9	2.72	
65	3331.40	0.072	0.053			13.0				2.72	
66	3331.70	1.6	1.2			22.7				2.72	
67	3332.00	0.75	0.58			24.6	22.9	0	89.7	2.73	
68	3332.30	npp									
69	3332.60	npp									
70	3332.90	nmp				17.3	11.2	0	95.0	2.73	
71	3333.20	nmp				nmp					
72	3333.50	0.72	0.56			15.7				2.72	
73	3333.90	2.3	1.8			14.3	12.1	0	91.5	2.72	
74	3334.10	nmp				19.6				2.72	
75	3334.40	nmp				23.5				2.72	
76	3334.80	0.54	0.41			17.2	2.6	0	85.1	2.72	
77	3335.10	2.5	1.9			19.1				2.72	
	3337.50										

COMPANY : SHELL
WELL : 2/5-7
FIELD : 2/5
STATE : NORWAY

FINAL REPORT

CORE NO.: 5

DATE: DECEMBER 1983

GECO
GEOPHYSICAL COMPANY OF NORWAY A.S
Petroleum laboratory

Plug No.	Depth (meter)	Permeability (mD), horizontal K_a	horizontal K_l	vertical K_a	vertical K_l	Porosity (%) He	Porosity (%) Sum.	Pore saturation S_o	Pore saturation S_w	Grain dens. g/cc	Formation Description
	3339.00										
78	3339.10	0.15	0.11			14.4	4.0	0	34.5	2.72	
79	3339.90	0.22	0.17			20.4				2.73	
80	3340.20	0.22	0.17			20.3	4.4	0	17.7	2.73	
81	3340.50	0.19	0.14			19.3				2.72	
82	3340.80	0.22	0.17			20.6				2.72	
83	3341.10	0.18	0.14			19.4	4.3	0	37.4	2.72	
84	3341.40	0.15	0.11			20.0				2.72	
85	3341.70	0.18	0.14			20.5				2.73	
86	3342.00	0.17	0.13			18.7	7.2	0	58.2	2.77	
87	3342.30	0.21	0.16			20.2				2.72	
88	3342.60	0.22	0.16			20.4				2.72	
89	3342.90	0.11	0.086			12.7	1.4	0	60.1	2.72	
90	3343.20	0.033	0.024			13.0				2.73	
91	3343.50	0.083	0.061			16.4				2.72	
92	3343.80	0.12	0.088			17.7	14.9	0	71.6	2.72	
93	3344.10	0.12	0.090			16.0				2.73	
94	3344.40	0.024	0.017			9.6				2.72	
95	3344.70	0.065	0.048			6.0	1.7	0	36.2	2.72	
96	3345.00	0.018	0.013			9.9				2.72	
97	3345.30	0.071	0.053			15.6				2.72	
98	3345.60	0.062	0.046			15.0	5.2	0	48.1	2.72	
99	3345.90	0.067	0.050			11.0				2.72	
100	3346.20	0.017	0.012			10.3				2.72	
101	3346.50	0.15	0.11			9.7	2.4	0	50.0	2.72	
102	3346.80	0.021	0.015			10.1				2.72	
103	3347.10	0.014	<0.01			8.4				2.72	
104	3347.40	0.019	0.014			11.1	1.5	0	57.8	2.72	
105	3347.70	0.014	0.01			10.1				2.72	
106	3348.00	0.028	0.020			11.6				2.73	
	3348.50										

COMPANY: A/S SHELL | FIELD: 2/5 | FILE:

WELL: 2/5-7 | COUNTY: | DATE: DEC.1983

LOCATION: | STATE: NORWAY | ELEV.:

CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO WHOM, AND FOR WHOSE EXCLUSIVE AND CONFIDENTIAL USE, THIS REPORT IS MADE. THE INTERPRETATIONS OR OPINIONS EXPRESSED REPRESENT THE BEST JUDGEMENT OF GECO LABORATORIES AND ITS OFFICERS AND EMPLOYEES.

GECO
GEOPHYSICAL COMPANY OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY

CORE-GAMMA SURFACE-LOG
(PATENT APPLIED FOR)
GAMMA RAY
RADIATION INCREASE ----->
VOLTAGE: 985 VOLT
INTEGRATING TIME: 11 SEC
COUNTS PER MINUTE: 10 K

DEPTH METER

POROSITY % —x— **PERMEABILITY mD** HORIZONTAL —■— VERTICAL —▲—

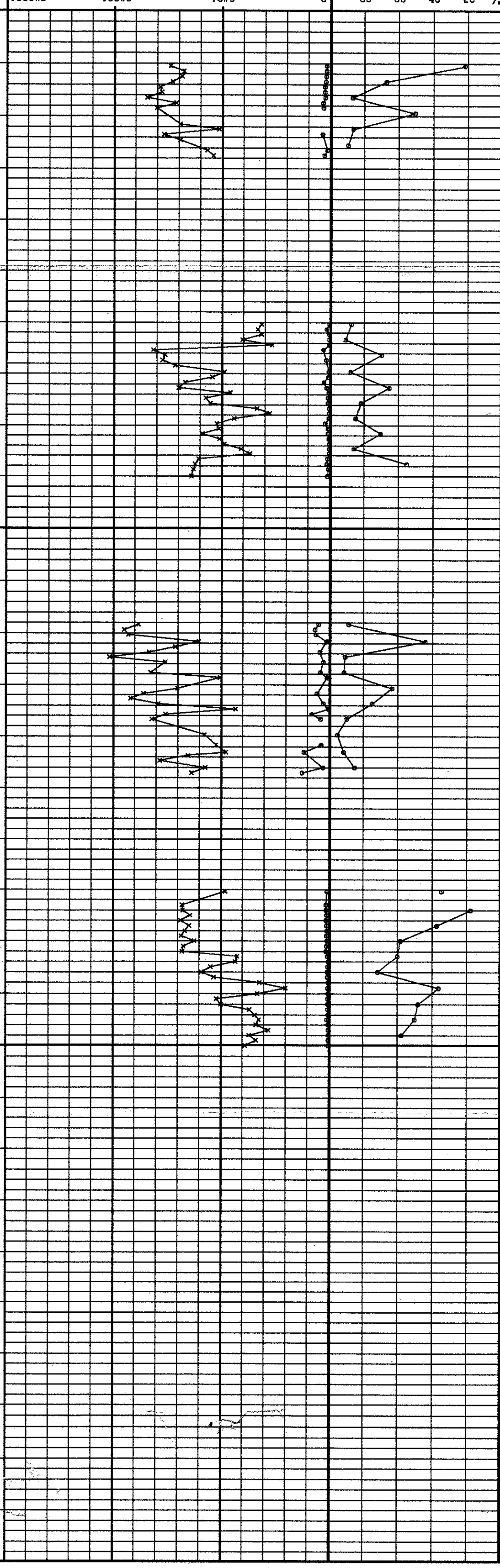
% 42 39 36 33 30 27 24 21 18 15 12 9 6 3 %

1000mD 100mD 10mD 0

FLUID SATURATION

OTHER | OIL —x— | WATER —■—

80 60 40 20 %



CORE NO: 1

CORE NO: 2

CORE NO: 3

CORE NO: 5

LOGGED INTERVAL:

CORE NO.1 :
3303.00 - 3312.00

CORE NO.2 :
3312.00 - 3326.50

CORE NO.3 :
3326.50 - 3337.50

CORE NO.5 :
3339.00 - 3348.50