

Denne rapport
tilhører



UND DOK.SENTER

L.NR. 12384100007

KODE Well 15/9-18 nr 9

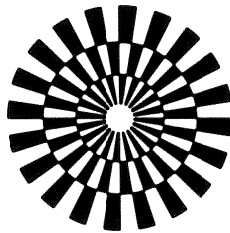
Returneres etter bruk

STATOIL

ROUTINE CORE ANALYSIS

WELL: 15/9-18

DATE: FEBRUARY 1984



GECO
GEOPHYSICAL COMPANY
OF NORWAY A/S

FINAL REPORT

COMPANY : STATOIL
 WELL : 15/9-18
 FIELD : 15/9
 STATE : NORWAY

PACF: 1
 DATE: FEBRUARY 1984



CORE NO.: 1

Plug No.	Depth (meter)	Permeability (mD),		Porosity (%)		Pore saturation	Grain dens.	Formation Description
		horizontal K _a	vertical K _a	He	Sum.			
1	2630.00	6.0	nmp	22.1	4.2	0	2.53	Sst.Gry.VF-pr.Shrndd.VW-cmt.C-lam.w/Mic.
2	2630.50	2.4	2.2	20.9			2.67	A.A.F-gr.W-srt.w/Pyr.Cl.
3	2630.90	0.85	0.12	16.7			2.64	A.A.VF-pr.
4	2631.40	3.8	0.072	19.5	12.2	0	2.72	A.A.ltl-C.w/o Pyr.w/Sid.
	2632.15							

FINAL REPORT

COMPANY : STATOIL
 WELL : 15/9-18
 FIELD : 15/9
 STATE : NORWAY

PAGE: 1

DATE: FEBRUARY 1984

CORE NO.: 2



Plug No.	Depth (meter)	Permeability (mD), vertical		Porosity (%) Sum.	Pore saturation		Grain dens. g/cc	Formation Description
		K _a	K ₁		S _o	S _w		
5	2632.50	0.14	0.10	10.8	1.7	0	17.4	Sltst.Brnsht-gry.Consol.w/Calc.Sid.
6	2632.55	0.029	0.021	14.7				A.A.
7	2633.10	0.13	0.094	15.9	14.8	5.5	85.9	Sst.Gry.VF-gr.Shang.VW-cmt.w/C.Mic.Pyr.
8	2634.10	0.63	0.49	16.7				A.A.F-gr.W-srt.w/Cl.
9	2634.40	1.6	1.2	16.1				A.A.Fr-srt.
10	2634.75	0.20	0.15	15.7	7.9	0	67.6	A.A.w/o Pyr.w/Calc.
11	2635.05	1.6	1.3	20.2				A.A.w/Pyr.
12	2635.60	0.41	0.31	17.8	16.9	0	84.9	A.A.
13	2636.00	1.1	0.90	19.9				A.A.C-Iam.
14	2636.60	2.1	1.6	18.3				A.A.
15	2636.75	0.45	0.34	16.8	15.1	0	72.8	A.A.
16	2637.00	0.87	0.67	21.1				A.A.VF-gr.W-srt.
17	2637.30	2.9	2.5	25.8				A.A.F-gr.
18	2637.75	0.40	0.30	19.7	12.1	0	79.1	A.A.VF-gr.lt1-Sid.w/o C
19	2638.05	0.80	0.62	22.3				A.A.F-gr.Fr-srt.w/o Pyr.Sid.
20	2638.40	2.2	1.7	18.4	13.9	0	81.5	A.A.w/C.Pyr.
21	2639.50	0.15	0.11	23.9				Sltst.Brnsht-gry.Consol.w/Sid.C.Mic.Pyr.
22	2640.10	0.23	0.18	15.6				Sst.Lt-gry.F-gr.Shang.VW-cmt.w/Calc.Mic.
	2645.90							



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 Petroleum laboratory

FINAL REPORT

PACF: 1

COMPANY : STATOIL
 WELL : 15/9-18
 FIELD : 15/9
 STATE : NORWAY

DATE: FEBRUARY 1984

CORE NO.: 3

Plug No.	Depth (meter)	Permeability horizontal K _a	Permeability vertical K _a	He	Porosity (%) Sum.	Pore saturation S _o	S _w	Grain dens. g/cc	Formation Description
23	3230.00		0.057	0.042	7.7			2.64	Sltst.Gry.Consol.fis.w/Mic.Pyr.
24	3230.00		0.049	0.036	6.9	3.5	21.2	2.65	A.A.
25	3230.30		0.042	0.031	7.1		42.5	2.64	A.A.w/C
26	3230.60	1.2	0.035	0.026	6.8			2.61	A.A.
27	3230.90		0.52	0.40	7.0	8.2	10.1	2.66	A.A.
28	3231.20		0.037	0.028	4.4			2.71	A.A.Calc.w/o fis.
29	3231.50	0.051	0.043	0.032	3.5			2.85	A.A.w/Sid.
30	3231.75	0.029	0.037	0.027	6.0	3.6	20.6	2.64	A.A.w/o Calc.Sid.
31	3232.05	1.4	0.029	0.021	6.5			2.61	A.A.fis.
32	3232.40	nmp	0.036	0.026	6.3			2.64	A.A.
33	3232.75	nmp	0.036	0.026	6.7	5.0	11.2	2.66	A.A.
34	3233.05	nmp	0.036	0.026	6.7		50.2	2.67	A.A.w/o fis.w/Calc.
35	3233.40	0.091	0.023	0.017	5.1			2.65	A.A.w/o Calc.
36	3233.75	0.38	0.025	0.018	6.1			2.70	A.A.w/Calc.
37	3234.05	0.035	0.032	0.023	5.2	2.2	0	2.67	A.A.w/Calc.
38	3234.40	0.38	0.094	0.070	5.4			2.73	A.A.
39	3234.75	28.6	99.0	93.4	17.2	17.6	7.0	2.69	Sst.Gry.F/M-gr.Sbang.W-cmt.w/Pyr.
40	3235.10	88.0	76.6	71.7	19.1		31.0	2.67	A.A.W-srt.w/C.
41	3235.40	108	128	122	19.7			2.66	A.A.lt1-Pyr.
42	3235.75	334	237	227	22.4	16.3	10.3	2.66	A.A.
43	3236.05	392	317	304	22.1			2.67	A.A.
44	3236.40	382	207	197	22.2			2.66	A.A.Fr-srt.
45	3236.75	328	195	186	21.6	19.4	4.9	2.68	A.A.Pyr-lam.
46	3237.05	54.6	49.6	45.8	20.1		28.4	2.64	A.A.w/o Pyr.
47	3237.40	104	98.2	73.2	18.9			2.65	A.A.
48	3237.75	733	820	797	21.7	18.9	5.7	2.65	A.A.
49	3238.05	670	701	680	21.6		29.6	2.67	A.A.F-gr.C/Pyr-lam.
50	3238.40	6.5	10.6	9.3	15.8			2.65	A.A.w/o C/Pyr-lam.
	3238.75	314	460	444	21.4				



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 OF NORWAY AS
 Petroleum laboratory

FINAL REPORT

PAGE: 2

COMPANY : STATOIL
 WELL : 15/9-18
 FIELD : 15/9
 STATE : NORWAY

CORE NO.: 3 (cont.)

DATE: FEBRUARY 1984

Plug No.	Depth (meter)	Permeability (mD), vertical		Porosity (%)		Pore saturation	Grain dens. g/cc	Formation Description
		K _a	K _l	He	Sum.			
51	3239.05	659	639	22.3	19.7	6.0	31.3	A.A.
52	3239.40	384	370	21.4				A.A.
53	3240.10	nmp	0.087	4.1	2.0	6.1	49.1	Sltst.Dk-gry.Consol.fis.C-lam.w/Sd-gr.
54	3240.40	5.0	4.4	18.0				Sst.Gry.F-pr.Sbang.M-cmt.w/Pyr.C.
55	3240.75	37.6	34.7	18.0				A.A.F/M-gr.
56	3241.05	3.4	2.9	15.5	11.7	1.1	40.7	A.A.Pyr-abd.
57	3241.40	11.9	10.7	19.7				A.A.ltl-Pyr.
58	3241.75	5.3	4.6	17.1				A.A.F-gr.
59	3242.05	5.4	4.6	16.9	8.7	8.8	17.5	A.A.
60	3242.40	4.3	3.7	17.0				A.A.Pyr-incr.
61	3242.75	460	444	19.5				A.A.F/M-gr.w/o Pyr.
62	3245.25	537	520	20.7	1.84	0	57.1	A.A.ltl-gry.w/o C
63	3245.50	578	560	22.0				A.A.
64	3245.75	1668	1633	22.5				A.A.
65	3246.05	464	448	20.7	9.9	0	14.7	A.A.
66	3246.40	339	326	20.7				A.A.
67	3246.75	123	117	19.1				A.A.
68	3247.05	162	154	19.9	20.5	0	67.0	A.A.
69	3247.40	341	328	20.7				A.A.
70	3247.75	978	952	24.3				A.A.
71	3248.05	244	233	21.1	10.0	0	18.0	A.A.w/C
	3248.50							



GECO
GEOPHYSICAL COMPANY
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Petroleum laboratory

FINAL REPORT

PACF: 1
DATE: FEBRUARY 1984

COMPANY : STATOIL
WELL : 15/9-18
FIELD : 15/9
STATE : NORWAY

CORF. NO.: 4

Plug No.	Depth (meter)	Permeability (mD),		Porosity (%)	Pore saturation	Grain dens.	Formation Description
		horizontal Ka	vertical K1				
72	3248.50	64.5	60.3	22.7	2.2	2.64	Sst.Gry.F-gr.Shang.W-cmt.w/C.
73	3249.20	171	162	23.2	4.0	2.66	A.A.It-gry.F/M-gr.W-srt.w/o C
74	3249.75	853	830	24.4	18.9	2.65	A.A.
75	3250.05	155	147	21.3	78.5	2.67	A.A.
76	3250.40	27.9	25.5	17.4	3.5	2.74	A.A.Pyr-lam.
77	3250.75	417	402	22.4	20.6	2.66	A.A.w/o Pyr.
78	3251.05	2324	2280	25.4	74.0	2.65	A.A.M-gr.Fr-cmt.Fr-srt.
79	3251.40	1140	1112	25.3	21.8	2.64	A.A.
80	3251.75	1217	1188	24.7	3.3	2.65	A.A.
81	3252.05	358	344	22.4	75.3	2.65	A.A.F/M-gr.
82	3252.40	487	471	23.8	4.7	2.66	A.A.
83	3252.75	664	644	24.7	21.2	2.64	A.A.
84	3253.05	978	953	26.0	78.8	2.65	A.A.
85	3253.40	1834	1796	22.4	3.4	2.65	A.A.M-gr.
86	3253.75	589	571	22.6	21.4	2.65	A.A.
87	3254.05	950	925	25.6	3.0	2.64	A.A.
88	3254.40	317	305	23.1	2.1	2.65	A.A.F-gr.W-cmt.
89	3254.75	193	184	23.3	64.8	2.65	A.A.W-srt.
90	3255.05	347	334	24.6	23.8	2.65	A.A.
91	3255.40	644	624	25.1	37.8	2.65	A.A.Fr-srt.
92	3255.75	545	528	25.9	74.7	2.65	A.A.
93	3256.05	0.16	0.12	6.1	23.8	2.64	Sst.It-gry.F-gr.Shang.W-cmt.Calc-mtrx.
94	3256.40	0.082	0.061	4.2	25.2	2.74	A.A.w/Sid.
95	3256.75	0.073	0.054	3.4	11.9	2.75	A.A.
96	3257.05	618	599	25.1	0	2.76	Sst.It-gry.F-gr.Shang.W-cmt.w/Pyr.
97	3257.75	734	712	26.1	24.8	2.65	A.A.W-srt.w/o Pyr.
98	3258.05	412	397	24.8	2.65	2.65	A.A.
99	3258.40	286	274	24.0	2.61	2.61	A.A.Gry.w/C.

FINAL REPORT

PACF: 2
DATE: FEBRUARY 1984

CORF. NO.: 4 (cont.)

COMPANY : STATOIL
WELL : 15/9-18
FIELD : 15/9
STATE : NORWAY



Plug No.	Depth (meter)	Permeability (mD),		Porosity (%)	Pore saturation	Grain dens.	Formation Description	
		horizontal K _a	vertical K _v					He
100	3259.05	421	299	24.0	3.0	62.3	2.63	A.A.
101	3259.40	402	201	22.1			2.64	A.A.lt-gry.w/o C
102	3259.75	297	144	22.1			2.64	A.A.
103	3260.05	458	266	22.6	2.4	70.9	2.64	A.A.
104	3260.40	225	145	21.4			2.64	A.A.
105	3260.75	302	89.7	22.8			2.64	A.A.
106	3261.05	435	181	23.5	2.0	63.3	2.64	A.A.
107	3261.75	422	344	24.5			2.64	A.A.
108	3262.05	214	129	23.1	0.5	69.4	2.64	A.A.C/pyr-lam.
109	3262.40	212	48.5	22.0			2.64	A.A.w/o C/pyr-lam.
110	3262.75	571	361	24.9			2.64	A.A.
111	3263.05	523	272	24.5	2.9	82.6	2.64	A.A.
112	3263.40	316	210	24.4			2.64	A.A.
113	3263.75	324	205	24.5			2.64	A.A.
114	3264.05	172	102	23.5	0	83.5	2.64	A.A.
115	3264.40	190	274	23.5			2.64	A.A.
116	3266.25	74.9	46.7	24.2	0.6	70.8	2.65	A.A.VF-gr.VW-cmt.
	3266.50							

COMPANY: STATOIL

FIELD: 15/9

FILE:

WELL: 15/9-18

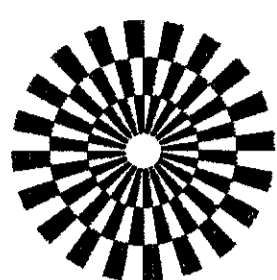
COUNTY:

DATE: FEB.1984

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 WHOM 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 & PERMEABILITY

PERMEABILITY μD HORIZONTAL
VERTICAL

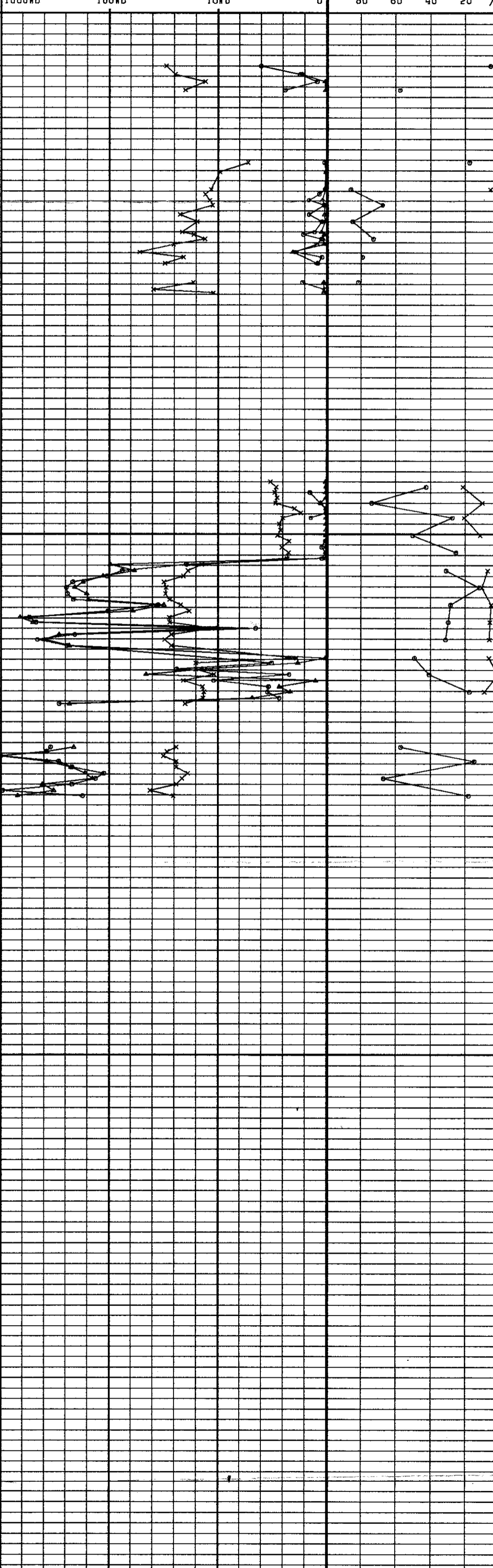
FLUID SATURATION

OTHER OIL WATER

CORE NO: 1
CORE NO: 2

CORE NO: 3

2630.00
2633.00
2633.00
2636.00
2639.00
2642.00
2645.00
2648.00
3230.00
3233.00
3236.00
3239.00
3242.00
3245.00
3248.00
3251.00



LOGGED INTERVAL:

CORE NO.1 :
2630.00 - 2632.15

CORE NO.2 :
2632.50 - 2645.90

CORE NO.3 :
3230.00 - 3248.50

COMPANY: STATOIL

FIELD: 15/9

FILE:

WELL: 15/9-18

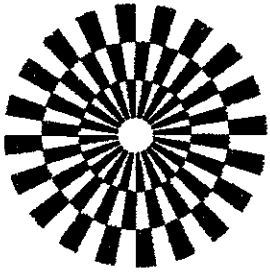
COUNTY:

DATE: FEB.1984

LOCATION:

STATE: NORWAY

ELEV.:



GECO
GEOPHYSICAL COMPANY
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CORE GRAPH

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VERTICAL SCALE: 1:200

LABORATORY

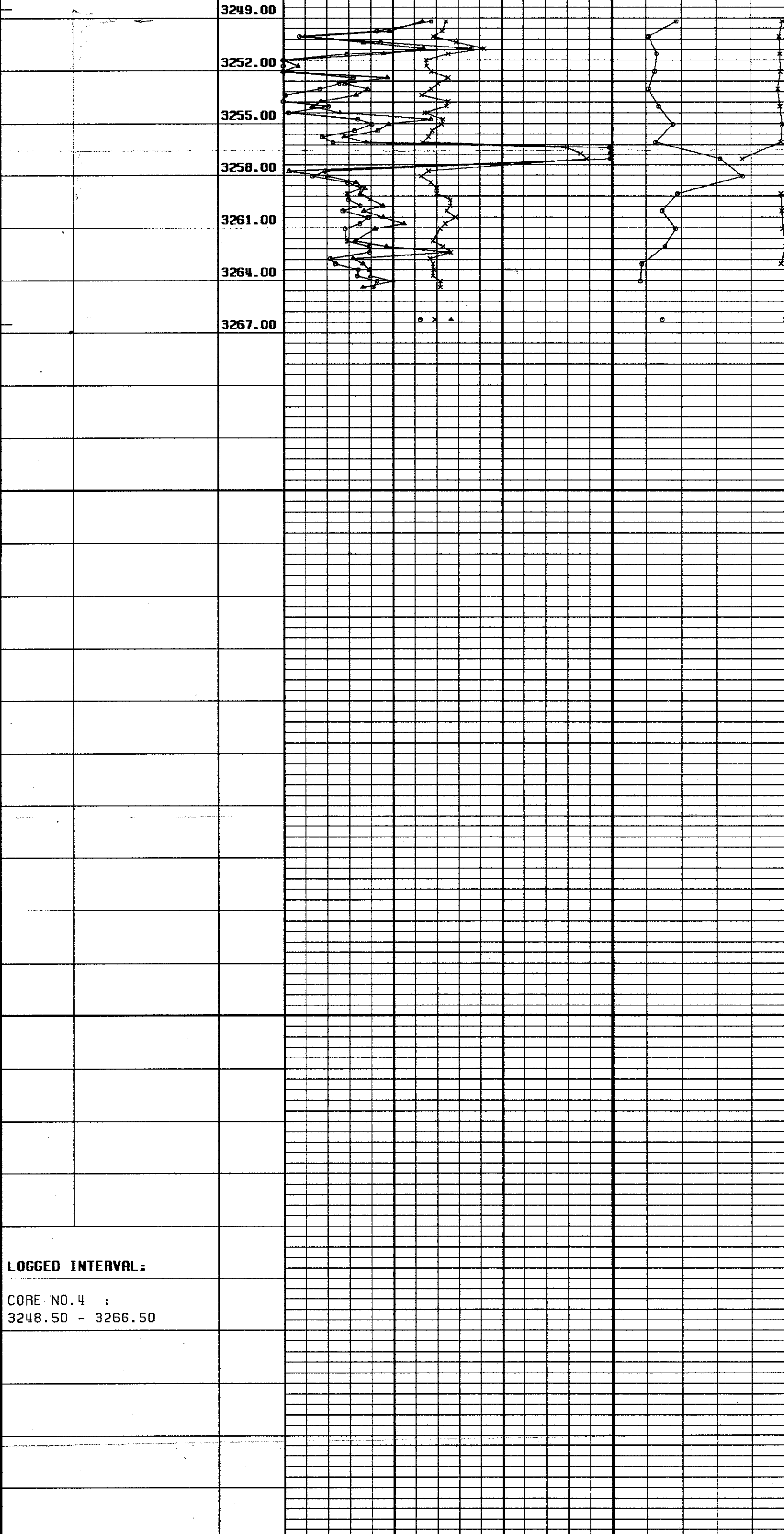
CORE-GAMMA SURFACE-LOG
(PATENT APPLIED FOR)
GAMMA RAY
RADIATION INCREASE ----->
VOLTAGE: 985 VOLT
INTEGRATING TIME: 11 SEC
COUNTS PER MINUTE: 10 K

POROSITY %	PERMEABILITY mD	
	HORIZONTAL	VERTICAL
42	1000mD	100mD
39		
36		
33		
30		
27		
24		
21		
18		
15		
12		
9		
6		
3		
0		

FLUID SATURATION		
OTHER	OIL	WATER
80	60	40
60	40	20
40	20	0
20	0	0
0	0	0

DEPTH
METER

CORE NO: 4



LOGGED INTERVAL:

CORE NO.4 :
3248.50 - 3266.50