



PHYSICAL PETROLOGY NO. 144
GEOLOGY FILE
~~ROUTINE CORE ANALYSIS~~

WELL: 7/11-7

DATE: SEPTEMBER 1983

7

CORE STUDY 7/11-7

CORE NO.	CORE DEPTH	CORRELATED CPI DEPTH
1	14923'-14959'6"	14922'
2	14961'-14966'	14956'
3	14966'-14995'4"	14963'
4	15012'-15051'9"	15012'
5	15052'-15103'6"	15051'
6	15105'-15152'3"	15104'

Ther 20.10.1980 - 109.2000

COMPANY : PHILLIPS
 WELL : 7/11-7
 FIELD : 7/11
 STATE : NORWAY

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CORE NO.: 1

DATE: SEPTEMBER 1983



Plug No.	Depth (feet)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	vertical K _l	horizontal K _a	vertical K _l	He	Sum.	S _o	S _w		
	14923'0"										
1	14923'4"	1.9	1.5	0.21	0.16	16.2	12.3	4.1	14.3	2.64	Sst.BrnsH-gry.VF-gr.Sbang.VW-cmt.w/Mic.
2	14926'0"	1.6	1.2	0.157	0.12	16.1	11.5	6.6	17.6	2.64	A.A.W/srt.w/C.
3	14927'0"	13.7	12.1	4.8	4.1	18.2				2.64	A.A.F-gr.
4	14928'0"	9.1	7.9	2.2	1.7	20.0	14.4	8.5	15.3	2.63	A.A.
5	14929'0"	11.3	10.0	3.5	3.0	19.1				2.63	A.A.
6	14930'0"	0.72	0.56	0.42	0.32	16.0	12.1	10.4	10.4	2.64	A.A.VF-gr.
7	14931'0"	2.2	1.7	1.9	1.5	17.7				2.63	A.A.
8	14932'0"	6.8	5.9	2.7	2.1	17.7	9.9	5.2	7.8	2.64	A.A.
9	14933'0"	0.44	0.34	1.2	0.97	16.4				2.68	A.A.w/Calc.
10	14934'0"	0.31	0.23	0.125	0.09	14.9	12.6	16.7	27.1	2.68	A.A.
11	14937'0"	0.101	0.07	1.7	1.3	13.6	10.0	1.3	10.3	2.68	A.A.
12	14938'0"	0.38	0.29	0.195	0.15	15.4				2.66	A.A.
13	14939'0"	0.157	0.12	0.52	0.40	14.1	7.9	6.6	6.6	2.67	A.A.
14	14940'0"	0.51	0.40	3.3	2.8	18.0				2.68	A.A.
15	14941'0"	5.9	5.0	0.88	0.68	19.3	17.0	17.2	15.8	2.66	A.A.
16	14942'0"	0.40	0.31	0.22	0.16	14.0				2.67	A.A.
17	14943'0"	0.35	0.26	0.073	0.05	13.5	15.5	11.4	27.6	2.66	A.A.
18	14944'0"	0.052	0.04	0.042	0.03	9.0				2.78	A.A.Calc-mtrx.
19	14946'0"	0.052	0.04	0.043	0.03	9.1	4.6	0	67.3	2.77	A.A.
20	14947'0"	0.033	0.02	0.04	0.03	8.2				2.80	A.A.
21	14948'0"	1.5	1.2	0.078	0.06	15.6	5.9	29.5	29.5	2.64	A.A.w/o Calc.
22	14949'0"	1.5	1.2	5.0	4.3	16.7				2.64	A.A.
23	14950'0"	3.9	3.3	4.8	4.1	19.0	12.4	5.9	5.9	2.65	A.A.
24	14951'0"	4.0	3.4	0.23	0.18	19.1				2.64	A.A.
25	14952'0"	1.3	1.0	0.59	0.46	17.6	14.6	17.0	17.0	2.63	A.A.Calc-mtrx.
26	14953'0"	0.016	0.01	0.25	0.19	5.8				2.69	A.A.
27	14954'0"	0.067	0.05	0.043	0.03	7.7	5.1	11.1	38.7	2.70	A.A.

COMPANY : PHILLIPS
 WELL : 7/11-7
 FIELD : 7/11
 STATE : NORWAY

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CORE NO.: 1 (cont.)

DATE: SEPTEMBER 1983



Plug No.	Depth (feet)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K ₁	vertical K _a	K ₁	He	Sum.	S _o	S _w		
28	14955'0"	0.099	0.07	0.082	0.06	8.6				2.69	A.A.
29	14956'0"	0.089	0.07	0.057	0.04	8.3	1.7	0	16.8	2.68	A.A.
30	14958'0"	0.151	0.11	0.090	0.07	8.9				2.65	A.A.w/o Calc-mtrx.w/Calc.
31	14959'0" 14959'6"	0.043	0.03	0.029	0.02	4.4				2.70	A.A.F-gr.Calc-mtrx.

COMPANY : PHILLIPS
 WELL : 7/11-7
 FIELD : 7/11
 STATE : NORWAY

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DATE: SEPTEMBER 1983



Plug No.	Depth (feet)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K ₁	vertical K _a	K ₁	He	Sum.	S _o	S _w		
	15012'0"										
82	15012'0"	nmp		0.060	0.04	11.0	6.1	0	52.5	2.67	Sst.Gnsh-gry.VF-gr.Sbang.VW-cmt.w/Mic.
83	15013'0"	0.043	0.03	0.095	0.07	9.5				2.66	A.A.W-srt.
84	15014'0"	0.048	0.03	0.044	0.03	9.8	10.3	5.2	46.4	2.66	A.A.
85	15015'0"	0.049	0.04	0.046	0.03	10.8				2.68	A.A.
86	15016'0"	0.039	0.03	0.030	0.02	9.5	8.2	0	52.6	2.66	A.A.
87	15017'0"	0.029	0.02	0.039	0.03	8.0				2.71	A.A.w/Calc.
88	15018'0"	0.033	0.02	0.039	0.03	4.5	5.1	0	68.5	2.67	A.A.
89	15019'0"	0.047	0.03	0.098	0.07	8.9				2.67	A.A.
90	15020'0"	0.023	0.02	0.023	0.02	4.4	1.9	0	62.4	2.76	A.A.Calc-mtrx.w/Sid.
91	15021'0"	0.018	0.01	0.029	0.02	3.6				2.78	A.A.
92	15022'0"	0.147	0.11	0.021	0.02	11.4	1.5	0	19.4	2.65	A.A.w/o Calc.Sid.
93	15023'0"	0.026	0.02	0.027	0.02	4.2				2.77	A.A.Calc-mtrx.w/Sid.
94	15024'0"	0.067	0.05	0.030	0.02	5.6	5.4	0	53.9	2.76	A.A.
95	15025'0"	0.032	0.02	0.072	0.05	5.2				2.68	A.A.w/o Calc.Sid.
96	15026'0"	0.023	0.02	0.056	0.04	6.5	4.0	0	72.9	2.78	A.A.Gry.w/Calc.Sid.Cl.
97	15027'0"	0.045	0.03	0.124	0.09	10.4				2.76	A.A.
98	15029'0"	0.046	0.03	0.037	0.03	10.6	4.8	0	44.7	2.67	A.A.Grnsh-gry.w/o Cl.Calc.Sid.
99	15030'0"	0.35	0.27	0.28	0.22	11.3				2.66	A.A.
100	15031'0"	0.016	0.01	0.011	0.008	2.6	6.1	0	46.5	2.76	A.A.Calc-mtrx.
101	15032'0"	0.068	0.05	0.014	0.01	6.8				2.71	A.A.
102	15033'0"	0.30	0.23	0.27	0.21	10.4	7.9	0	16.7	2.68	A.A.F-gr.W-cmt.w/o Calc-mtrx.w/Calc.
103	15034'00"	0.212	0.16	0.200	0.15	14.2				2.67	A.A.
104	15035'0"	0.27	0.20	0.24	0.18	11.7	11.7	0	38.4	2.65	A.A.
105	15037'0"	0.42	0.32	nmp		5.2				2.73	Sst.Rd.VF-gr.Sbrnidd.VW-cmt.ferr.w/Calc.
106	15038'0"	0.204	0.15	0.074	0.05	3.8	4.3	0	82.2	2.75	Sst.Gn.VF-gr.Sbrnidd.VW-cmt.w/Calc.Sid.
107	15039'0"	0.023	0.02	0.026	0.02	3.0				2.79	A.A.W-srt.Calc-mtrx.
108	15040'0"	0.024	0.02	0.025	0.02	3.7	1.8	0	52.3	2.77	A.A.
109	15041'0"	0.028	0.02	0.049	0.04	4.3				2.71	A.A.

COMPANY : PHILLIPS
 WELL : 7/11-7
 FIELD : 7/11
 STATE : NORWAY

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CORE NO.: 5

DATE: SEPTEMBER 1983



Plug No.	Depth (feet)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		K _a	K _l	K _a	K _l	He	Sum.	S _o	S _w		
	15052'0"										
36	15053'0"	0.029	0.02	0.025	0.02	10.7	5.0	0	26.7	2.66	Sst.Lt-gry.VF-gr.Sbang.VW-cmt.w/Mic.
37	15054'0"	0.038	0.03	0.027	0.02	11.1				2.65	A.A.W-srt.
38	15055'0"	0.032	0.02	0.032	0.02	11.2	6.1	0	44.2	2.66	A.A.
39	15056'0"	0.017	0.01	0.034	0.03	8.9				2.66	A.A.
40	15057'0"	0.014	0.01	0.015	0.01	6.4	5.8	0	51.8	2.70	A.A.GrnsH-gry.w/Calc.
41	15058'0"	0.017	0.01	0.016	0.01	8.0				2.68	A.A.
42	15059'0"	0.026	0.02	0.032	0.02	11.6	5.7	0	52.3	2.66	A.A.
43	15060'0"	0.019	0.01	0.026	0.02	10.4				2.69	A.A.
44	15062'0"	0.012	0.009	0.014	0.01	8.8	6.7	0	73.7	2.66	A.A.
45	15063'0"	0.079	0.06	0.017	0.01	6.3				2.69	A.A.
46	15064'0"	0.062	0.05	0.019	0.01	9.2	6.3	0	65.8	2.66	A.A.
47	15065'0"	0.020	0.01	0.015	0.01	5.8				2.73	A.A.w/Sid.
48	15066'0"	0.45	0.35	0.014	0.010	8.0	5.8	0	72.4	2.67	A.A.w/o Sid.
49	15067'0"	0.031	0.02	0.014	0.01	6.9				2.69	A.A.
50	15068'0"	0.022	0.02	0.028	0.02	10.3	5.4	0	45.4	2.69	A.A.
51	15069'0"	0.092	0.07	0.033	0.02	10.2				2.67	A.A.
52	15070'0"	0.037	0.03	0.024	0.02	10.7	4.1	0	26.7	2.68	A.A.
53	15072'0"	0.107	0.08	0.14	0.10	12.2	4.7	0	28.4	2.66	A.A.
54	15073'0"	0.058	0.04	0.072	0.05	14.0				2.67	A.A.
55	15074'0"	0.133	0.10	0.119	0.09	13.4	7.6	0	14.0	2.66	A.A.
56	15075'0"	0.06	0.04	0.044	0.03	9.9				2.66	A.A.
57	15077'0"	0.011	0.008	0.009	0.006	6.1	2.9	0	29.5	2.70	A.A.w/o Calc.w/Cl.Pyr.
58	15078'0"	0.037	0.03	0.01	0.007	6.8				2.71	A.A.
59	15080'0"	0.017	0.01	0.02	0.01	7.2	3.6	0	73.9	2.76	A.A.w/o Pyr.w/Sid.Calc.
60	15082'0"	0.013	0.009	0.01	0.007	4.9				2.73	A.A.
61	15083'0"	nmp		0.011	0.008	nmp	2.2	0	54.4		A.A.fis.
62	15084'0"	0.013	0.009	0.006	0.005	5.7				2.71	A.A.

COMPANY : PHILLIPS
 WELL : 7/11-7
 FIELD : 7/11
 STATE : NORWAY

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DATE: SEPTEMBER 1983



Plug No.	Depth (feet)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	15105'0"										
136	15105'0"	1.7	1.3	1.6	1.3	12.5	10.3	0	19.9	2.65	Sst.Lt-gry.VF-gr.Sbang.W-cmt.w/Mic.
137	15106'0"	1.4	1.1	0.084	0.06	12.5				2.65	A.A.W-srt.
138	15107'0"	0.023	0.02	0.042	0.03	4.2	4.4	0	26.4	2.74	A.A.VW-cmt.Calc.
139	15108'0"	0.018	0.01	0.019	0.01	3.4				2.77	A.A.w/Pyr.C.
140	15109'0"	0.168	0.13	0.036	0.03	6.9	8.8	0	37.6	2.73	A.A.
141	15110'0"	0.022	0.02	0.019	0.01	5.2				2.75	A.A.
142	15111'0"	0.147	0.11	0.25	0.19	8.8	6.8	0	67.9	2.68	A.A.
143	15112'0"	0.068	0.05	0.031	0.02	11.6				2.65	A.A.w/o Calc.
144	15113'0"	0.049	0.04	0.037	0.03	11.2	4.1	0	6.3	2.65	A.A.
145	15114'0"	0.213	0.16	0.221	0.17	12.7				2.63	A.A.w/o Pyr.
146	15115'0"	0.021	0.02	0.014	0.010	4.0	1.5	0	58.6	2.68	A.A.Gnsh-gry.VW-cmt.w/Cl.Pyr.
147	15117'0"	3.5	3.0	0.204	0.15	12.2	10.3	0	33.0	2.64	A.A.Lt-gry.w/o Pyr.Cl.
148	15118'0"	6.0	5.2	0.059	0.46	14.6				2.63	A.A.
149	15119'0"	13.2	11.6	2.37	1.8	16.1	8.5	0	6.1	2.64	A.A.F-gr.
150	15120'0"	6.0	5.2	0.66	0.51	14.5				2.64	A.A.
151	15121'0"	16.8	15.0	6.60	5.5	15.6	12.5	0	45.7	2.64	A.A.
152	15122'0"	3.0	2.6	2.1	1.6	13.3				2.64	A.A.w/Calc.
153	15123'0"	0.21	0.16	0.022	0.02	5.3	2.0	0	90.4	2.75	Sltst.Gn.Consol.w/Calc.Mic.Pyr.
154	15124'0"	0.019	0.01	0.021	0.02	3.6				2.70	Sst.Gn.VF-gr.Sbrnidd.VW-cmt.Cl-mtrx.w/Mic
155	15126'0"	0.017	0.01	0.020	0.01	3.0	1.5	0	76.1	2.71	A.A.W-srt.w/Calc.
156	15127'0"	0.022	0.02	0.026	0.02	2.9				2.69	A.A.w/o Calc.w/Pyr.
157	15128'0"	0.026	0.02	0.036	0.03	2.8	2.1	0	82.5	2.74	A.A.w/Calc.
158	15129'0"	0.066	0.05	0.014	0.01	4.4				2.70	A.A.w/o Calc.
159	15131'0"	0.030	0.02	0.026	0.02	5.2	2.2	0	77.2	2.67	A.A.
160	15132'0"	0.25	0.19	0.151	0.11	12.2				2.64	A.A.Lt-gry.w/o Cl-mtrx.
161	15132'11"	0.23	0.18	0.132	0.10	9.6	5.6	0	39.3	2.64	A.A.
162	15134'0"	0.65	0.50	0.69	0.54	11.6				2.63	A.A.w/o Pyr.
163	15135'0"	2.1	1.6	0.75	0.58	12.7	8.8	0	26.7	2.63	A.A.

COMPANY: PHILLIPS

FIELD: 7/11

FILE:

WELL: 7/11-7

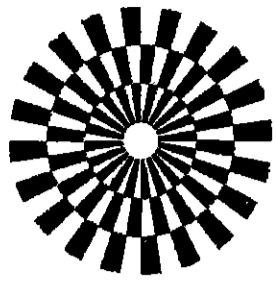
COUNTY:

DATE: SEP. 1983

LOCATION:

STATE: NORWAY

ELEV.:



CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO WORK, 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
FEET

POROSITY & PERMEABILITY mD

HORIZONTAL ———— x ————
VERTICAL ———— o ————

% 42 39 36 33 30 27 24 21 18 15 12 9 6 3 0 %
1000mD 100mD 10mD 0

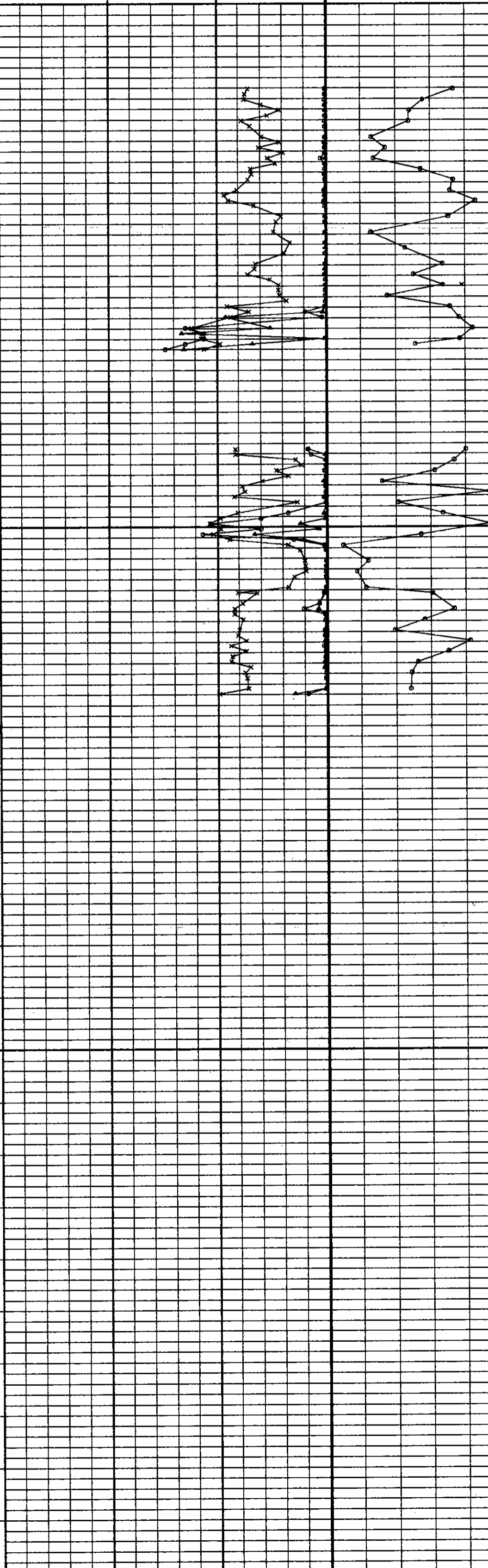
FLUID SATURATION

OTHER OIL WATER
80 60 40 20 %

CORE NO: 5

CORE NO: 6

15052.00
15061.00
15070.00
15079.00
15088.00
15097.00
15106.00
15105.00
15114.00
15123.00
15132.00
15141.00
15150.00
15159.00



LOGGED INTERVAL:

CORE NO. 5 :
15052.00- 15103.60

CORE NO. 6 :
15105.00- 15152.30