

CORE DESCRIPTION

Sheet 1

CUT 18,5 m  
 RECOVERED 13,4 m  
 LOSS 0,1 m

99 %

COMPANY ELF NORGE  
 WELL NO 1/3-3  
 CORE NO 1

DATE 5/11/82

DEPTH 4129-4147,5 m

11-12-11

DEPTHS	% Co/Cu	PERM.	POROS.	SHOWS	DIPS	LOG	DESCRIPTION
4130	2-4	1 ① 5 6				.....	<u>SHALE</u> dark grey to black-grey, silty with a lot of laminations of very fine <u>SANDSTONE</u> indurated, shaly, dark grey to light grey +/- dolomitic, locally calcareous.
4131		② 9 10				.....	-,00 Laminations of very fine <u>SANDSTONE</u> light grey, dark grey with a great number of shaly inclusions (Bioturbated). Sand is well silica-dolom. cemented with subangular translucent qtz. grains. Occ. white mica.
4132	1/2 -4	③ 12 13 ④				.....	-,10 Laminations of very fine <u>SANDSTONE</u> A/A with inclusions of fine grains of quartz (subangular).
4133		15 16 ⑤				.....	-,00 Silty <u>SHALE</u> dark grey
4134		18 19 ⑥		NO CUT		.....	-,80 Laminations of dolomitic <u>SANDSTONE</u> A/A and silty <u>SHALE</u> black area - micaceous <u>BENTONITTIC</u> Shells
4135	5-8	21 22 ⑦		NO DIRECT FLUID	SUB - HORIZONTAL	.....	-,80 Very fine <u>SANDSTONE</u> to <u>SILTSTONE</u> , dolomitic, indurated Ø not bad
4136		24 26 ⑧				.....	
4137	0,5 -4	29 30 ⑨				.....	-,90 <u>SHALE</u> (bioturbated) silty to very silty, micaceous with a lot of thin levels (cm) of very fine <u>SANDSTONE</u> dark grey, dolomitic.
4138		33 34 ⑩				.....	
4139	0,5 -4	39 40 ⑪				.....	
4140		45				.....	

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CORE DESCRIPTION

Sheet 2

CUT 18,5 m  
 RECOVERED 18,4 m 99 %  
 LOSS 0,1 m

COMPANY ELF NORGE  
 WELL NO 1/3-3  
 CORE NO 1

DATE 5/11/82  
 DEPTH 4129-4147,5 m

DEPTH	Co/Cu	PERM.	POROS	SHOWS	DIPS	LOG	DESCRIPTION
4141	46 52 53	12					
4142	55 56	13					
4143	60 61	14	///				
4144	63 64	15	///				,20 - SHALY <u>SILTSTONE</u> , black grey, with laminations of dolomitic light grey v.f. <u>SANDSTONE</u> (some weak Ø)
4145	66 67	16					
4146	71 72	17					
4147	78 79 80	18					,40 - Silty <u>SHALE</u> dark grey with laminations of dolomitic very fine <u>SANDSTONE</u> ,40 - Preserved Amonites in bottom

NO DIRECT FLUID  
 SUB - HORIZONTAL

Back ground gas  
 4130 - 4134 : 0,2/01 C1 - 0.04/ C2  
 4135 - 4140 : 0,04 C1 - C2  
 4140 - 4142 : C1 - C2

CORE DESCRIPTION

CUT 18 m/ 5h  
 RECOVERED 18,2  
 LOSS

100 %

COMPANY ELF NORGE  
 WELL NO 1/3-3  
 CORE NO 2

DATE 7/11/82

DEPTH

4181-4199 m

DEPTHS	% C <sub>o</sub> C <sub>o</sub>	PERIM	POROS	SHOWS	DIPS	LOG	DESCRIPTION
2,5		1				①	
		①				,50	
		4				②	
4182		5				,90	
		①				,20	
		②				,30	SANDSTONE ① very fine to fine, medium to hard light grey to beige, subangular to subrounded (silica, calcareous and (?) dolomitic) with white mica.
4183	3,6	7					
		8					
		③				,60	
		11				,60	SANDSTONE ② very fine, to fine. Grey, with a lot of shaly laminations, black-grey.
4184		12					
		4/7				②	
4185		17					
		18					
		⑤				,80	
4186		21					
		22					
	6/9	⑥					▲ bright yellow    Δ bright yellow + very pale
4187		26				①	
		27					
		⑦				,50	▲, Δ, + A/A and traces of OIL SHALE black grey. Micromicaceous, with some thin level of very fine to fine SANDSTONE.
4188		33					
		34				,15	SANDSTONE as ① very fine to fine, grey. Abundant cement silico-dolomitic, and some coarse quartz subrounded. Laminations of grey-black shale.
4189	3/5	37					
		38					
		⑨				,80	Intercalations SANDSTONE ② and black-grey
4190		41				④	SHALE micromicaceous
	2/2	42					
		⑩				,80	Sandy SHALE black-grey with rare laminations of SANDSTONE very fine to fine.
4191		45					
		46					
	1/2	⑪				,75	
4192		51				,90	▲ bright yellow,    Δ pale yellow + very pale yellow

# CORE DESCRIPTION

Sheet 2

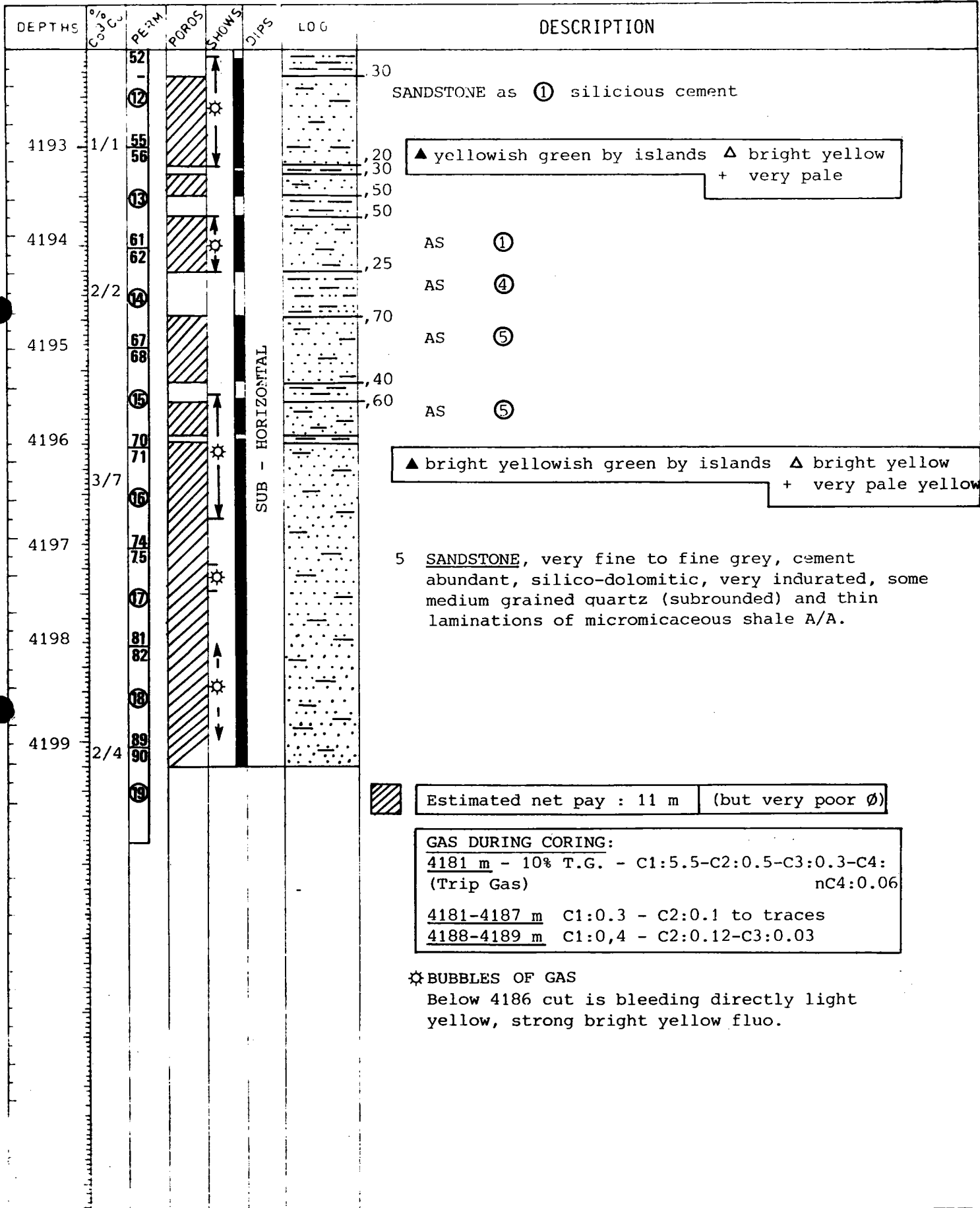
CUT 18 m / 5 h  
 RECOVERED 18,2  
 LOSS

100 %

COMPANY ELF NORGE  
 WELL NO 1/3-3  
 CORE NO 2

DATE 7/11/82

DEPTH 4181-4199 m

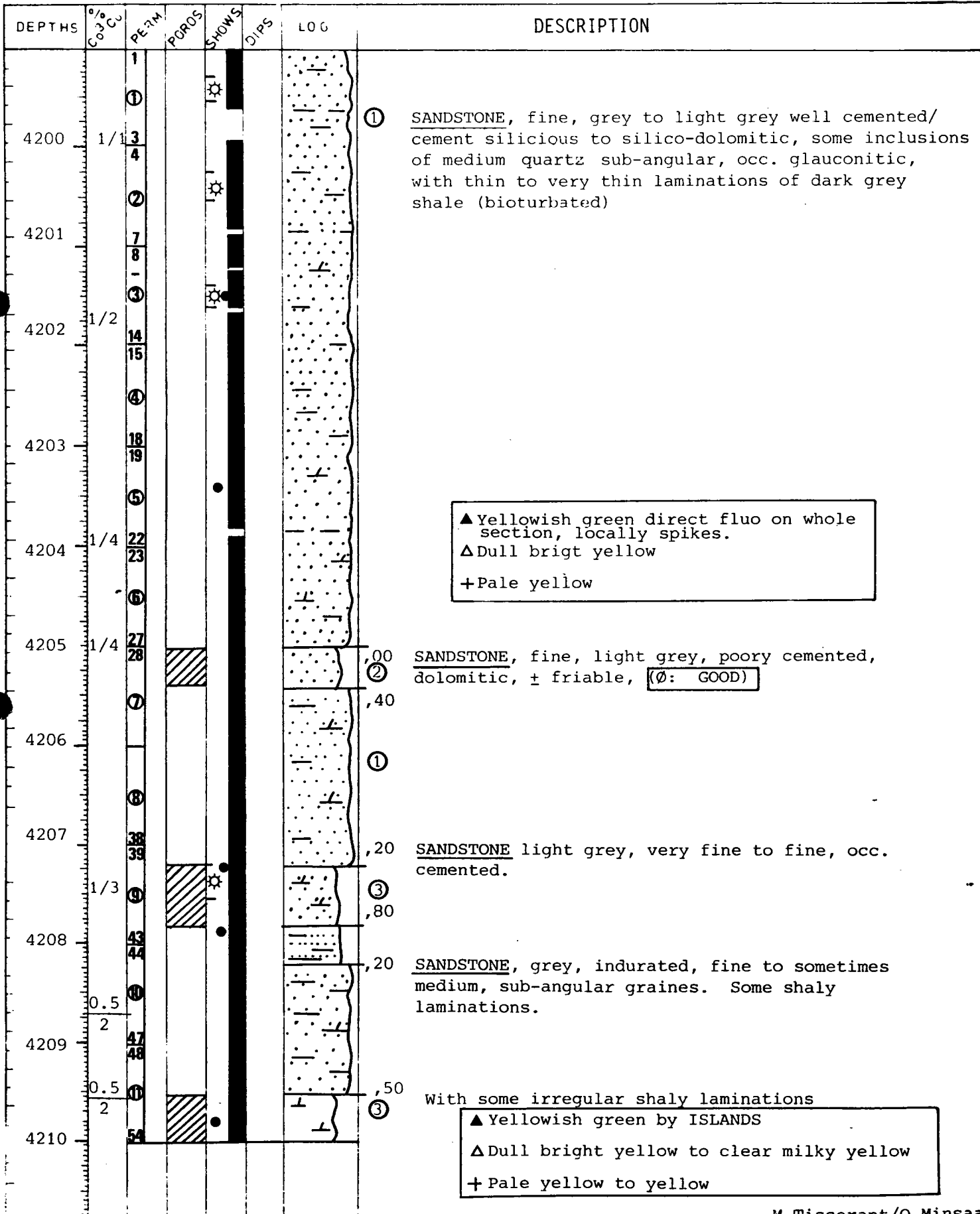


# CORE DESCRIPTION

CUT - 14 m  
 RECOVERED 14 m 100 %  
 LOSS

COMPANY  
 WELL N° **1/3-3**  
 CORE N° **3**

DATE 8/11/82  
 DEPTH 4199-4213 m



## CORE DESCRIPTION

Sheet 2

CUT <u>14 m</u>	COMPANY <u>ELF NORGE</u>	DATE <u>8/11/82</u>
RECOVERED <u>14 m</u> <span style="float: right;">100 %</span>	WELL NO <u>1/3-3</u>	DEPTH <u>4199-4213 m</u>
LOSS: <u>-</u>	CORE NO: <u>3</u>	

DEPTHS	Co/Cu	PERM	POROS	SHOWS	DIPS	LOG	DESCRIPTION
4211	0,5 -2	55 ⑫ 58 59 ⑬	weak ∅	[Solid Black Bar]	[Solid Black Bar]	[Dotted Pattern] [Dotted Pattern]	,10 <u>SANDSTONE</u> grey-brown, fine to medium, med. hard abundant cement slightly dolomitic. Thin levels of dark grey shale (bioturbated)
4212	0/0	63 64 ⑭	[Diagonal Lines]	[Solid Black Bar]	[Solid Black Bar]	[Dotted Pattern] [Dotted Pattern]	,70 <u>SANDSTONE</u> fine to medium, med. hard, grey, often friable rare cement. Subangular to subrounded grains of quartz occ. glauconitic.
4213		69	[Diagonal Lines]	[Solid Black Bar]	[Solid Black Bar]	[Dotted Pattern]	,00

▲ Yellow points      Δ Dull bright yellow  
+ pale yellow

Strong smell of HC on the core from 4206 to 4211.5. Little or no smell below.

Gas during coring.

4199 m (Trip Gas) - TG: 17%-C1 7,5% C2:1,7% C3:0,6%  
iC4:0,13% nC4:0,2%

4200-4205 m (Background gas): C1:0,8-1,5% C2:0,2-0,4%  
C3:0,15%

4206-4208 m (Background gas): C1:3,8-6,2% C2:0,6-1,2%  
C3:0,2-0,5% iC4:0,12%  
nC4:0,18%

CORE DESCRIPTION

Sheet 1

CUT 18 m  
 RECOVERED 18 m 100 %  
 LOSS

COMPANY EAN  
 WELL N° 1/3-3  
 CORE N° 4

DATE 9/11/82  
 DEPTH 4213-4231

DEPTHS	% CO <sub>2</sub> CC	PEAK	POROS	SHOWS	DIPS	LOG	DESCRIPTION
0							
4214							<u>SANDSTONE</u> , fine, light-grey to grey, mod. sorted, sub-angular, compact, well cemented, silicic cement - tr. of glauc.
4215			POOR				
0							Laminations of SHALE dark-grey
4216							4216
0							<u>SANDSTONE</u> A/A, friable, w/good apparent porosity.
4217							Yellowish green Pale yellow
4218			GOOD				
0							4218.7
4219	1						
4220							<u>SANDSTONE</u> A/A, compact
4221	0						Some points of fluo, yellow - rare stains bright yellow -
4222			POOR				
4223							<u>SANDSTONE</u> strongly bioturbated in the whole core-section. Vertical tubeshaped (15-20 cm deep) burrows from coretop and down to 4224. Some occ. colorchange from light grey (most common) to brownish.
4224							... Bioturbation starts at 4209,5 m in core 2

G. CAILLET - O. MINSAAS

# CORE DESCRIPTION

Sheet 2

CUT 18 m  
 RECOVERED 18 m    100 %  
 LOSS -----

COMPANY EAN  
 WELL N° 1/3-3  
 CORE N° 4

DATE 9/11/82  
 DEPTH 4213-4231

DEPTHS	Co/Cu	PERM	POROS	SHOWS	DIPS	LOG	DESCRIPTION																																																																																																																																												
4225	0					.....	<u>SANDSTONE</u> A/A , compact																																																																																																																																												
4226	0					.....																																																																																																																																													
4227						.....																																																																																																																																													
4228						.....	<u>SANDSTONE</u> A/A, light-grey, w/silicic to dolomitic cement.																																																																																																																																												
4229	2					.....																																																																																																																																													
4230						.....																																																																																																																																													
4231	2,5					.....	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: left; border-bottom: 1px solid black;">ROP and GAS during coring</th> </tr> <tr> <th></th> <th>C1</th> <th>C2</th> <th>C3</th> <th>ic4</th> <th>nC4</th> <th></th> </tr> </thead> <tbody> <tr><td>2414</td><td></td><td></td><td></td><td></td><td></td><td>13,9</td></tr> <tr><td>2415</td><td>3.4</td><td>.87</td><td>.44</td><td>.13</td><td>.17</td><td>13,9</td></tr> <tr><td>2416</td><td></td><td></td><td></td><td></td><td></td><td>20,9</td></tr> <tr><td>2417</td><td>2.9</td><td>1.2</td><td>.64</td><td>.25</td><td>.25</td><td>11,9</td></tr> <tr><td>2418</td><td></td><td></td><td></td><td></td><td></td><td>9</td></tr> <tr><td>2419</td><td>2.2</td><td>.66</td><td>.35</td><td>.27</td><td>.27</td><td>8,8</td></tr> <tr><td>2420</td><td></td><td></td><td></td><td></td><td></td><td>11,7</td></tr> <tr><td>2421</td><td>1.1</td><td>.34</td><td>.17</td><td>.01</td><td>.02</td><td>16,4</td></tr> <tr><td>2422</td><td>1.4</td><td>.48</td><td>.25</td><td>.01</td><td>.04</td><td>18,4</td></tr> <tr><td>2423</td><td></td><td></td><td></td><td></td><td></td><td>15,5</td></tr> <tr><td>2424</td><td>1.6</td><td>.52</td><td>.29</td><td>.02</td><td>.13</td><td>17,4</td></tr> <tr><td>2425</td><td></td><td></td><td></td><td></td><td></td><td>17,4</td></tr> <tr><td>2426</td><td></td><td></td><td></td><td></td><td></td><td>13,3</td></tr> <tr><td>2427</td><td></td><td></td><td></td><td></td><td></td><td>13,7</td></tr> <tr><td>2428</td><td></td><td></td><td></td><td></td><td></td><td>11,5</td></tr> <tr><td>2429</td><td></td><td></td><td></td><td></td><td></td><td>16,9</td></tr> <tr><td>2430</td><td></td><td></td><td></td><td></td><td></td><td>19,4</td></tr> <tr><td>2431</td><td></td><td></td><td></td><td></td><td></td><td>19,7</td></tr> </tbody> </table>	ROP and GAS during coring								C1	C2	C3	ic4	nC4		2414						13,9	2415	3.4	.87	.44	.13	.17	13,9	2416						20,9	2417	2.9	1.2	.64	.25	.25	11,9	2418						9	2419	2.2	.66	.35	.27	.27	8,8	2420						11,7	2421	1.1	.34	.17	.01	.02	16,4	2422	1.4	.48	.25	.01	.04	18,4	2423						15,5	2424	1.6	.52	.29	.02	.13	17,4	2425						17,4	2426						13,3	2427						13,7	2428						11,5	2429						16,9	2430						19,4	2431						19,7
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## CORE DESCRIPTION

CUT 8 m  
 RECOVERED 3,5 m  
 LOSS 4,5 m

44 %

COMPANY EAN  
 WELL N° 1/3-3  
 CORE N° 5

DATE 10.11.82  
 DEPTH 4231-4239

DEPTH	% Co <sub>2</sub> Cu	PERM	POROS	SHOWS	DIPS	LOG	DESCRIPTION
0						.....	
4232						.....	<p><u>SANDSTONE</u> fine, occ. very fine, grey to light-grey, mod. to well sorted, sub. angular, well cemented, silicic cement, rarely dolomitic. traces of glaucon. Bioturbated. <u>SANDSTONE</u> gradually getting more consolidated cemented towards bottom, especially from 4233.</p>
4233			POOR	NONE		.....	
4234						.....	Thin laminations of shale, dark-grey.
4235						.....	
4236						.....	
4237						.....	
4238						.....	
4239						.....	

C. CAILLET - O. MINSAAS

# CORE DESCRIPTION

CUT 9 m  
 RECOVERED 8,7 m  
 LOSS 0,3 m

97 %

COMPANY EAN  
 WELL NO. 1/3-3  
 CORE NO. 6

DATE 12.11.82  
 DEPTH 4239-4248

DEPTH	% C.C.C.	PERM.	POROS.	SHOWS	DIPS	LOG	DESCRIPTION
4240	1%			△		[Dotted pattern]	<u>SANDSTONE</u> , fine to very fine, grey to light-grey, mod. sorted, subangular, well cemented, silicic cement, loc. sl. friable, tr. of glauconite and white mica. Strongly bioturbated in parts.
4141	2%					[Dotted pattern]	<u>SANDSTONE</u> A/A, w/dolomitic cement, to silicic-cement.
4242	5%			△		[Dotted pattern]	
4243	3%					[Dotted pattern]	Thin laminations of dark-grey <u>SHALE</u>
4244	3%			△▲		[Dotted pattern]	
4245	2%					[Dotted pattern]	<u>SANDSTONE</u> A/A, silicic cement.
4246	2%			△▲		[Dotted pattern]	△ Very pale white yellow. ▲ Rare stains yellow around shale points. Partly strong yellow flow, in <u>SHALY</u> bands, not in <u>sst</u> Distinct HC-smell.
4247	1%					[Dotted pattern]	
4248	1%					[Cross-hatched pattern]	Occ. 3-5 cm vertical burrows from top of core and down to 4243 m. Below 4244 m vertical burrows are rare (2 obs.) and smaller (1-2 cm). Moderate bioturbation from 4241-4243 m strong bioturbation below 4244. None or very small scale bioturbation (1 cm layers) observed between 4243-4243,85 m

Poor apparent porosity